HIAWATHA RESOURCES INC.

GEOLOGICAL AND GEOCHEMICAL REPORT

ROZAN PROPERTY

Nelson M.D., B.C., N.T.S. 82-F-6 W/2

by

P.H. SEVENSMA, Ph.D., P. Eng.

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ILLUSTRATIONS

* In pocket

1. INTRODUCTION

Hiawatha Resources Inc. is a private company with its head office in Vancouver, B.C. P.H. Sevensma holds the subject property in trust for Hiawatha under an option granted by Eric Denny and associates, of Nelson, B.C.

A program of exploration was conducted under supervision of the writer during the 1988 field season.

2. SUMMARY HISTORY

The property is located on Red Mountain, 10 km south-southwest of Nelson, B.C. at the headwaters of Forty-nine Creek and off Rozan Creek, a branch of Hall Creek. The central claim of the group is the original Golden Eagle claim, Lot No. 4215, surveyed in 1899. At various times small shafts were sunk and tunnels driven on claims adjacent to the original discovery; these claims were known as the T.S., the Sun, and the Golden Eagles.

Until 1988, only rehabilitation of old workings and old trails had occurred, as well as occasional examinations by various companies.

The original proprietor of the claims, Bill Rozan, died in 1972 and in September 1973, the writer restaked the four Sun claims on behalf of the Public Trustee for the Rozan Estate. Eric Denny purchased the property in 1974 from the Public Trustee. In 1983, the property was optioned by Patrick Resources Corp., and an examination report was written by P.J. Santos, P.Eng., of Castlegar, in August. In 1986, a traverse was made by Lacana and 51 soil samples and 13 rock samples taken along and near the road branching to the mine workings from the Copper Mountain fire tower road. These were assayed by Acme Analytical Laboratories by the ICP (Inductively Coupled Plasma) method for 30 metals and an acid leach followed by atomic absorption to determine gold in parts per billion (ppb). Although encouraging results were obtained with 12 samples out of 51 soils (equals 23.5%) assaying over 90 ppb, with a peak of 255 ppb, and a peak of 313 ppm copper, there was no follow-up.

In the fall of 1987, the writer made a prospecting trip in the East and West Kootenays and examined a dozen properties, including the Rozan. Six dump rock samples were assayed by ICP 30 metals and gold in ppb by acid leach and AA with highly encouraging results. One hundred ninety-six soil samples taken by Jack Denny were submitted to Acme Analytical Labs by the writer for assaying gold by leach and AA on 10 grams.

33 samples (= 17%) assayed over 90 ppb gold
66 samples (= 33.4%) assayed less than 10 ppb gold and were concentrated in the north part of the grid.
Peak value was 1730 ppb.

What added to the attraction was the total production from the claims from 1928 to 1958 was tabulated by P.J. Santos, P.Eng. in 1983 at 146.16 tons averaging 1.47oz/ton gold and 0.74 oz/ton silver with about 0.7% Pb+Zn from veins six inches to 3 feet wide. Mining was by handsorting, gold content being related to pyrite content.

These results supported by an observed abundance of felspar porphyry float and outcrops by the writer in 1973 and 1987 led to a 100% option and a detailed geological and geochemical investigation in 1988.

3. PROPERTY

The optioned property, known as the Rozan Group, consists of the following claims, the subject of this report. Figure 3.

Name	Record AP	Area	Anniversary Date (after report acceptance)
Rozan	1281	6 Units	October 05, 1998
Gold 1	4464	1 Unit	October 22, 1998
Gold 2	4463	1 Unit	October 22, 1998
Golden Eagle	1629	Rev.C.G.	April 01, 1999
Golden Eagle 2	1004	Rev.C.G.	April 03, 1999
Golden Eagle 3	1005	Rev.C.G.	April 03, 1999
Golden Eagle 5	1006	Rev.C.G.	April 03, 1999

Claims added to the group by staking, not included in this assessment report, are: Figure 2.

	No of Units	Record No.	Date Staked	Date Recorded
Eagle 1	2 x 2 = 4	4961	Feb. 16/88	Feb. 17/88
Eagle 2	5 x 3 = 15	5029	Apr. 12/88	Apr. 13/88

4. LOCATION AND ACCESS

The claims are centered on latitude 49°24' north and longitude 117° 21' west, or N5471200, E475000 in the UTM grid, on claim sheet 82-F-6, W/2, Nelson M.D., B.C., 10 km SSW of Nelson.

Access is by a 16 km gravel road leaving Highway 3A 8 km west Nelson, or by a 4WD 9 km bushroad leaving Highway 6 about 10 km south of Nelson. The first follows Fortynine Creek Valley to the main mine tunnel at elevation 2,000 m. and the second Hall Creek Valley to an old tunnel at about elevation 1,650 meters on Rozan Creek. The lowest elevation of Hall Creek on the Eagle 2 staked east and adjacent to the Rozan Group is 1,300 meters. Highest elevation is Red Mountain at 2,164 meters.

Overall slope is about 25° to the south. The central part of the property is alpine to sub-alpine, due to an old (30 years ago) fire. Some merchantable timber occurs on the north slope and on the east portion of the claims. The secondary creeks tend to dry up in summer.

5. REGIONAL GEOLOGY

The area forms part of an important volcanic belt overlain and underlain by metamorphic clastic sediments, previously known as the Rossland volcanics. These formations, of early Jurassic age, comprise predominant volumes of Augite Porphyries, and have been intruded by the Upper Jurassic to Cretaceous Nelson granodioritic intrusives and in places by later abundant lamprophyre dykes.

Numerous mineral deposits are known in the Nelson area, the best known being the Silver King mine, which produced about 222,000 tons assaying 20 oz per ton silver and 3.36% copper with minor gold from 1889-1948. A map and list are attached, showing production figures for those deposits close to the Rozan Group. During 1987, detailed mapping was carried out by a party directed by Kathryn Andrew and Trygve Höy of the B.C. Department of Mines, of an area immediately east of the Rozan at a scale of 1:20,000, as the start of a revision of the 1982 geological map No. 1571A, Bonnington map area, which was a compilation of all previous work by R. Mulligan and H.W. Little (Figure 1).

The summary of this mapping is as follows:

Considering the NE trending belt of volcanics running from Rossland to Nelson, the Rossland Group is now subdivided into 3 units by Trygve Höy.

(a) Base, the Ymir Formation: Fine grained clastic and carbonate rocks at least 1,500 meters thick. Some 300 meters of massive to impure limestone is reported at the base and some 500 meters near the top is argillite and chert. The top is finely laminated argillite with some feldspathic rocks and minor limey siltstone beds, overlain conformably by the Elise formation.

(b) Elise Formation: The lower four units consist of coarse-grained augite porphyry flows and breccias, a few units of ash, crystal and lapillituffs and massive plagioclase porphyritic flows, followed by tuffaceous siltstone and conglomerate and finally plagioclase porphyry, the Silver King porphyry. (Unit Je 11, map symbol JsK).

(c) The Youngest Hall Formation: Overlies the Elise disconformably and consists of conglomerate with Elise pebbles followed by graphitic argillite and sandstone and some limey argillaceous layers, succeeded by some 200 meters of pebble conglomerate. Siltstones and argillites with minor impure limestone layers characterize the top. Granodiorite of the Nelson intrusions cut the above formation, followed by late lamprophyre and diorite dykes. These may be Cretaceous or even Tertiary in age.

Silver King Porphyry

Trygve Höy defines these interbedded porphyries as coeval subvolcanic intrusions, because they contain several percent resorbed quartz phenocrysts. They could thus be flows or high level sills. They lie for a length of about 4 km along the base of the Hall formation syncline which cuts Hall Creek Valley close to Highway 6, but map 1571A shows one dyke-like mass cutting into these sediments, near the Canadian Belle showing (No. 30), for a length of 1 km.

The Silver King ore-body is said to lie along a sericite schist-zone, which appears to be sheared S.K. porphyry, but most old descriptions lack precision. Many showings and small producers lie close to these porphyries and a connection is clearly suggested by all of these features, but factual descriptions are lacking.

The Nelson area is heavily timbered and only recently has the building of logging road provided better access for mapping and exploration purposes, like the Giveout Forestry road towards Sand Creek, starting at Highway 6 south of Nelson.

6. PROPERTY GEOLOGY

An airphoto map on a scale of 1:5,000 contour interval 10 m., was prepared from August 4, 1983 photographs (flight line BC 83031, photos 326 & 327 by Nadir Mapping, covering the Rozan

Group and the adjoining staked Eagle 1 and 2 claims for a total area of 3 x 3 km = 900 acres. 10.2 km of line was cut and the outcrops mapped along the lines and the road and trails by P.J. Santos, P.Eng., with intermittent assistance. Supervision was provided by P.H. Sevensma, P.Eng., assisted by R.J. Nicholson, P.Eng. Underground, about 120 m. of drift were mapped by P.J. Santos.

Whereas the GSC map 1571A showed a granodiorite plug in the road and tunnel area, it was found that a small central granodiorite plug intruded two large masses of felspar porphyry identical to the Silver King porphyry. No final conclusive evidence was observed on the relative ages of the porphyry and the granodiorite. Some smaller porphyries have been found in metasediments which seemed to lie along the bedding, and clasts of apparent porphyry have occasionally been found in the granodiorite, but some diffuse contacts suggest that the porphyry and intrusive have inter-reacted, or have some other close genetic relationship. Detailed field and thin section work is required in this case.

Mapping

The purpose of mapping was to produce an accurate outcrop map on a scale of 1:2,000 (1" = 167'), which was accomplished along all the cut lines with some added areas. Of interest, is that the metasediments on the East were found to strike NW with an Easterly dip, and seem thus to overlie the Elise mapped to the West. The same conflict is evidenced by Map 1571A which led us originally to assume that the Ymir formation should form a tight anticline piercing the Elise.

Of interest is this as yet unexplained structure, where both Silver King porphyry and big geochemical gold anomalies are located.

More detailed mapping complemented by mechanical trenching is required to gain a better insight of the actual relationships of the various rock units mapped, including ascertaining by thin section work that the intrusive is actually granodiorite of the normal Nelson type, or is in fact of a different composition.

Late lamprophyre dykes are more abundant than shown, as there are a number only 2 or 3' wide, like along the upper Rozan road and in the tunnel area, that could not be shown at 1:2,000.

Of interest, is the breccia in the footwall of the ore-shoot mined in the tunnel. There are crowded big (6" - 1') fragments in the intrusive, the fragments consisting of both meta-volcanic and meta-sedimentary rock. A similar rock was found on the NW corner of the property near a gold high of 315 ppb. This breccia could be significant from an ore-forming point of view, but was not mineralized with any visible sulphides or gold.

7. MINERALIZATION

The old ore-bin in front of the tunnel still contains typical hi-grade samples, high in pyrite and gold. Some have been reported as follows:

	Au	Ag	Lab.
1. J.A. Mitchell, 1946 (FW of vein)	13.09	?	B.C. Govt.
2. E. Denny, 1973	7.92	4.6	Crest
3. P.J. Santos, 1983	2.47	0.26	Kamloops

The writer collected a number of samples representative of the various types lying on the dump and in small piles or in outcrop and obtained the following results on samples each weighing about 2.0 kg.

Examination, October 24, 1987

	Mo ppm	Cu ppm	Ag ppm	Fe %	As ppm	W ppm	Au ppb	Au oz/T
588	230	29	2.3	9.77	12	1	26,300	.770
589	31	12	.6	4.90	8	2	5,995	.175
590	251	452	15.8	56.51	129	1	16,200	.473
591	11	359	15.3	20.38	102	14	10,080	.294
592	123	24	3.2	3.54	9	12	5,220	.152
593	12	165	.5	4.17	5	21	119	.0035

Exploration, Summer 1988

701	15	248	.4	3.29	2	41	8	.0002
702	4	9	.7	1.10	2	67	158	.0046
703	3	20	.7	2.20	2	21	86	.0025
704	11	14	7.0	6.43	3	73	640	.0190
705	6	12	5.3	1.71	2	1724	225	.0066
706	12	99	.7	11.83	87	1	13	.0004

P.J. Santos Samples, 1988

33596	11	159	.2	5.01	11	1	71	
33597	648	9	.2	1.98	9	1	490	.0143
58019	7	6	2.3	4.79	4	1302	19,920	.582
58020	9	9	.7	4.38	6	153	8,860	.259
58011	1	79	.1	4.82	7	1	4	Lamprophyre

Nos. 58001 - 58010 assayed metasediments in 10 m. sections. No values of significance were found, except weakly anomalous copper and some zinc. See assay reports; location close to line 3N, 250 to 400 m. E.

Nos. 58013 to 58018 found weakly anomalous gold zones in various locations as follows:

No.	Location	Width (m)	Mo ppm	Sr ppm	Cu %	Mg %	Au ppb	Fe %	W ppm
58012	275N 280W	1.2	6	66	.79	.56	3	3.16	2
58013	50N 150W	1.0	9	68	.84	.28	28	3.02	5
58014	230S 660W	0.2	5	4	.04	.06	32	.83	7
58015	200S 670W	0.5	18	9	.06	.22	17	1.32	11
58016	400S 160W	2.5	18	149	1.56	1.31	19	3.83	2
58017	390S 160W	20.0	3	206	2.16	1.47	7	3.86	2
58018	585S 300E	1.0	8	24	.03	.27	72	4.05	90
58019	275S 290E	Fire-assay, Kamloops .420 oz/T							
58020	275S 290E	Fire-assay, Kamloops .247 oz/T							

All silvers are .1 ppm. Other values are of little interest.

Sample Descriptions

588 Hi pyrite samples, lower portal area, from dump.

589 Caved upper portal. Silicified stockwork N45°E, 6' wide.

590 Pit above upper portal. Hi magnetite and solid limonite from dump. Zone is 18" wide.

591 18" vein in HW of lamprophyre dyke, strike ± 300°, dip 80° NE. Patchy in siliceous zone, hi magnetite.

592 ± 100 m. long weakly mineralized quartz vein up to 18" wide.

593 Oxidized outcrop along road on projection of 592 vein.

701 Pit on road at 175W, 40N. Oxidized metasediment near porphyry. Relatively high copper at 248 ppm. Strike 340°, dip ± 90°.

702 End new road. Old tunnel; 4" lensy vein 300° ± 20°, dip 80° SW. White quartz, minor specks pyrite.

703 HW of 702. Bleached volcanics, minor pyrite.

704 Dump some 300 m. below 702, at mouth of old tunnel (705).

705 Lensy 12" vein, strike 95°, dip 72° S, in granodiorite, 0.17% W, little pyrite, at top of tunnel.

706 Wide ± 100 m. graphitic schists, 1 km S of Salmo. Probably same rocks as metasediments on Rozan, but high iron.

33596 FW main vein at 290 N.

Sample Descriptions (Cont'd)

33597 HW main vein at 290 N.

58019 1' quartz vein in low grade soils below high anomaly. 90°/74°N.

58020 Dump. 2' altered wallrock of vein 58019. 280S, 300E.

58011 Sample of lamprophyre. Hi in Sr (459 ppm), Ba (1488 ppm), La 63 ppm, P (.331%) and Ni (85 ppm). Upper shaft, 270°N/ 80° S.

8. GEOCHEMICAL PROGRAM

Most of the program was carried out intermittently, shifting the next survey on the basis of previous results, as favourable results were encountered over a much broader area than forecast. 10.2 km of line were cut with up to 200 m. line-spacing; sample spacing varied from 25 to 50 m. As soils were quite loose, a trowel was used to take a sample of the brown B-Zone at a depth of about 8" - 12", place it in a kraft paper bag, dry it partially and ship it as soon as possible to Acme Analytical Laboratories. Here, drying was completed and .500 grams of -80 mesh material digested with 3 ml. of 3-1-2 parts of Hcl- HNO_3, $-H_2O$ at 95° Centigrade for one hour and diluted to 10 ml. with water. This leach is submitted to Inductively Coupled Plasma atomic emission spectroscopy. A total of 30 elements are determined simultaneously. Gold analysis is done by acid leach of a 10 gram sample and the gold detected by atomic absorption to a lower limit of 1 ppb. If so desired, high ppb gold can be analyzed by fire-assay. In a preliminary broad reconnaissance such as on the Rozan, the more refined methods of sampling and assaying are reserved for a more detailed survey of those areas that appear to be of special interest.

Soils were found to be mostly residual, with a light root mat and to vary from beige to brown in colour at a depth of about 10". Glacial overburden appeared to be mostly confined to elevations below about 1,350 m., and in most cases overburden appeared to be less than about five feet deep. No definite morainic material was recognised although some crests between in creeks look like it. A pronounced NW alignment of high samples was observed as soon as the first results were in, i.e., across the due south-sloping surface. In due course a more nearly N-S alignment developed, although the most prominent geological contacts were also oriented NW. Quartz veins were found to follow both a NS and a near E-W direction, with East and North dips. Lamprophyre dykes were found to have both NS and NW strikes. A strong but tight fault was mapped at the end of the main drift, striking N 70° E with a 70° NNW dip. North of this fault there is a large area with very low gold values. No evidence of major faults was observed or inferred.

In relation to the geology, the contact intrusive against the plagioclase-porphyry (= Silver King porphyry) appears to be the main control for high-gold soils. Some N-S ridges may be morainic and may provide a secondary N-S orientation superimposed upon the main NW trend.

In contouring, use was made of statistics and of experience, especially for choice of contours. -30 ppb was all contoured as thresholds, but other nearby surveys suggest that -10 or possibly -15 ppb Au is a more realistic threshold. Whatever, most assays below about 20 ppb occurred in well defined areas and -30 ppb is a conservative choice, in line with what has been experienced by the writer elsewhere. Next contours tested were +90, +160, +300, +600 and 900-2700, which gave a very satisfactory image. The most convenient rendition was found to be 0 to 30 ppb, 31-90 ppb and over 90 ppb. See figures 6 and 7)

Summary Statistics

	No. of Samples	Mean	Variance	Std.Dev.	Coeff. Var.	Lo-Hi	Threshold
Au	532	89	47,853	219	2	1-2625	30
W	445	6	144	12	2	1- 116	10
Cu	445	46	812	29	1	11- 203	45
Ba	445	147	27,283	165	1	14-2154	150
Ni	445	27	509	23	1	5- 171	35
Fe	445	4.31	1.04	1.02	.24	1.32-10.85	4.75

Statistics should only be used in conjunction with geological factors. For instance, chromium is high (100-165 ppm) along the sampled portion of the Copper Mountain fire-tower road, which shows much massive Elise augite porphyry. Elsewhere, chromium content of the soils is mostly less than 50 ppm.

9. GENERAL SUMMARY

Soils strongly anomalous in gold believed to reflect higher gold content of underlying rocks are associated with a granodiorite (?) - Silver King porphyry contact and with Silver King porphyry and Elise Augite porphyry contacts on the NW part of the property. As yet poorly understood structural anomalies appear to be associated with a concentration of higher values in gold, copper, tungsten and iron. The source of the high gold is believed to be more extensive than the known relatively short sections of narrow high grade up to 1 meter wide quartz veins.

As Hall Creek and Fortynine Creek are the only significant placer creeks in the area and originate on the flanks of Red

Mountain, a major hard rock gold deposit may underlie the Rozan property. Whether this is a large low grade deposit or a smaller higher grade deposit cannot be predicted until more is known about the prevailing geological conditions by more detailed work. This should consist of more detailed fill-in soil sampling, mechanical trenching of the high gold areas, IP surveying to locate the sulfide-bearing zones as pyrite in the area is known to carry gold, and perhaps airborne magnetic surveying. Petrographic studies are required to define the various rock types. The presence of tungsten and in places molybdenite, as well as copper, suggest a possible gold-bearing intrusive. The narrow quartz veins may also be fringe-manifestations of a larger vein-type deposit of the Rossland type; the FW breccia, also found much farther to the NW, points equally into this direction. Near Silverton, the Willa deposit is associated with a breccia in a large remnant of Rossland Volcanics.

The potential for an economic gold deposit appears to be outstanding in this favorable geologic environment.

Respectfully submitted,

P.H. Sevensma

P.H. Sevensma, Ph.D., P.Eng.
Exploration Manager
HIAWATHA RESOURCES INC.

Vancouver, B.C.
December 23, 1988

CERTIFICATE

I, Peter H. Sevensma, of 265 Bayview Road, Lions Bay, B.C., DO HEREBY CERTIFY:

1) That I am a Consulting Geologist with business address as above.

2) That I graduated at the University of Geneva, Switzerland in 1937 and that I obtained my Ph.D. in Geological Sciences in 1941 at the same institution, my thesis subject being the study of certain gold mines in Central France.

3) That I am a registered Professional Engineer, member of the Association of Professional Engineers in British Columbia.

4) That I have practised my profession for the last fifty-one years with the only interruption the war in the Far East from 1942 to 1946.

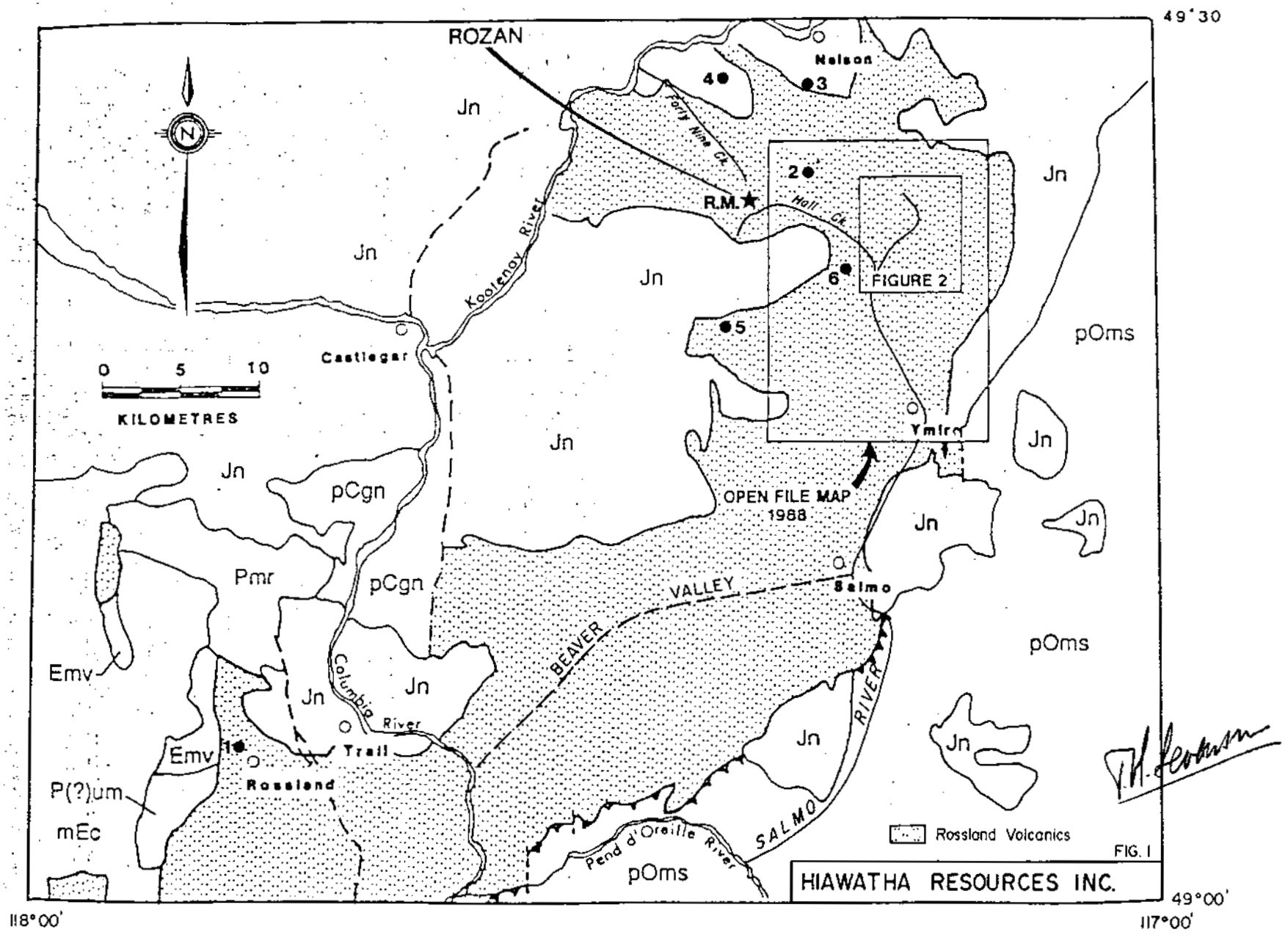
5) That I have personally directed the work program on the Rozan property during 1988.

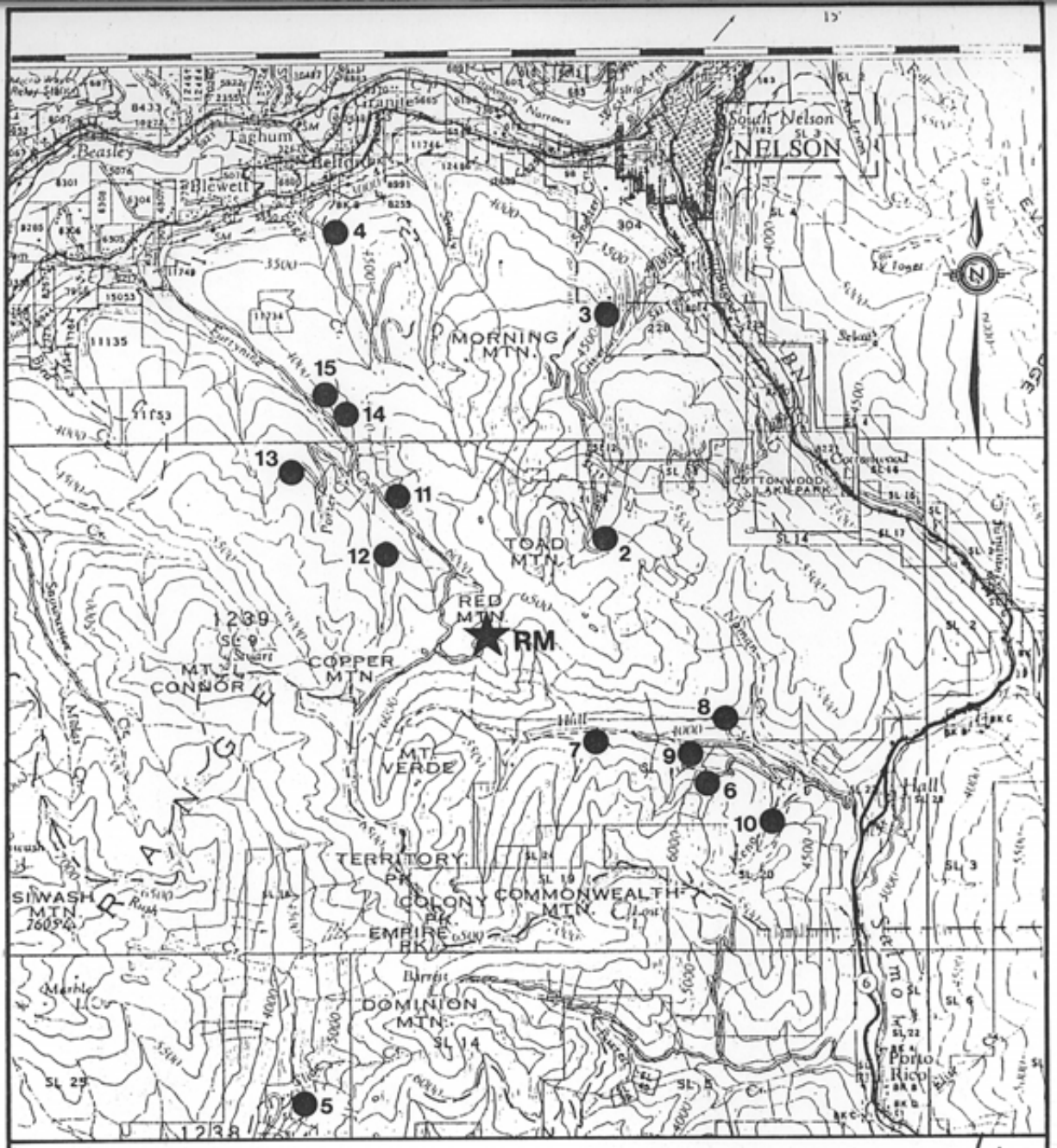
6) That I am a principal of Hiawatha Resources Inc.

P.H. Sevensma

P.H. Sevensma, Ph.D., P.Eng.

Vancouver, B.C.,
December 23, 1988


49°30
ROZAN
Nelson
4
3
Forty Nine Ck.
Jn
2
R.M.
Hall Ck.
Kootenay River
Jn
Jn
6
FIGURE 2
5
pOms
0 5 10
KILOMETRES
Castlegar
Ymir
Jn
Jn
pCgn
OPEN FILE MAP
1988
Jn
Jn
Pmr
pCgn
VALLEY
Salmo
BEAVER
pOms
Emv
Columbia River
Jn
Jn
RIVER
Emv
1
Trail
Jn
Jn
Rossland
P(?)um
mEc
SALMO
Pend d'Oreille River
Rossland Volcanics
pOms
FIG. 1
HIAWATHA RESOURCES INC.
49°00'
118°00'
117°00'



★RM = RED MOUNTAIN

0 2 MILES

0 3 Km

HIAWATHA RESOURCES INC.

MARCH-1988

FIG. 2

ROSSLAND VOLCANICS, SELECTED PRODUCERS ON G.S.C. MAP 1090-1091A, 82F WEST HALF = NELSON WEST HALF, 1960, H.W.

MAP NO.	NAME	N°82F-W/2	ELEV. IN FT.	PERIOD	TONS	oz/t Au	oz/t Ag	% Cu	% Pb	% Zn
A	ROSSLAND AREA									
1	Rossland Main ore zones in area 4000' x 2000' (Le Roi, Centre Star, Josie, War Eagle)	308-312	3500'	1893-1942	5,914,476	.45	.58	1.0	-	-
B	NELSON AREA									
2	Silver King	206	6000'	1889-1948	221,997	.0013	20	3.36	Minor	Minor
3	Athabaska	196	4500'	1898-1943	46,055	.44	.14	tr.	.02	.01
4	Granite-Poorman (Kenville)	188	3500'	1890-1953	197,749	.33	.14	Minor	.013	.008
5	Second Relief	219	4200'	1902-1948	228,107	.43	.12	.01	Minor	V. minor
6	Fern	215	5000'	1896-1942	12,430	.51	.04	-	-	-
R.M.	Golden Eagle, T.S. Sun	211	6500'	1928-1958	146	1.47	.74	-	.43	.38
C	OTHER, HALL CREEK									
7	Baltic	212	4200'	1931-1941	2	1.0	1.0	.8	-	-
8	Gold King	213	4600'	1931-1940	7	1.57	2.86	-	-	-
9	Bear	214	4000'	1937-1942	126	1.06	.48	-	-	-
10	Cdn Belle	216	5000'	1939-1940	26	1.04	.35	.1	-	-
D	OTHER, FORTYNINE CR.									
11	Gold Hill	209	5200'	1903-1925	127	2.39	1.98	1.35	-	-
12	Northern Light	210	5400'	1907	34	.058	1.74	.4	-	-
13	Referendum	184	5300'	1907	250	.40	-	-	-	-
14	May & Jennie	191	4200'	1906	300	.13	.1	-	-	-
15	Miracle	190	4000'	1944	26	.38	1.00	-	-	-

9W. 8W. 7W. 6W. 5W. 4W. 3W. 2W. 1W. B/L 1E. 2E. 3E. 4E. 5E. 6E. 7E. 8E. 9E 10E.

3N. 2N. 1N. 0 1S. 2.5S. 4S. 6S.

L.C.P.

TUNNEL

Rozan Creek

LEGEND

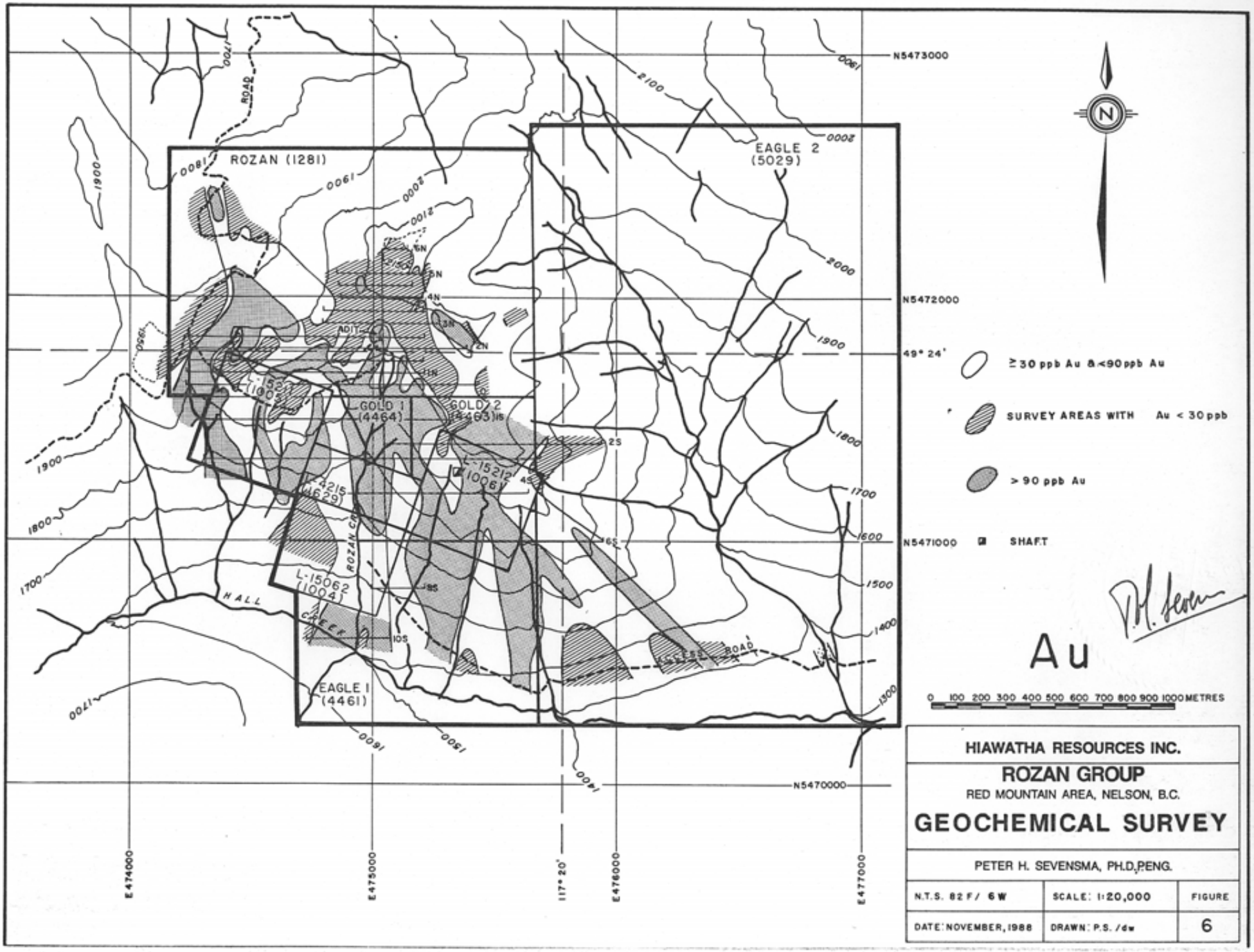
- L — Lamprophyre
- Gd — Nelson Intrusives (Granodiorite)
- AP — Silver King Porphyry (Andesite Porphyry)
- MV — Meta-Volcanics (Green, recrystallized andesite)
- AuP — Augite Porphyry
- MS — Meta-Sediments (Black argillite, fine grained quartzite, tuffaceous sandstone)
- Shaft
- 70° Fault

HIAWATHA RESOURCES INC.

ROZAN GRID

GEOLOGY

m 0 50 100 200 m



HIAWATHA RESOURCES INC.

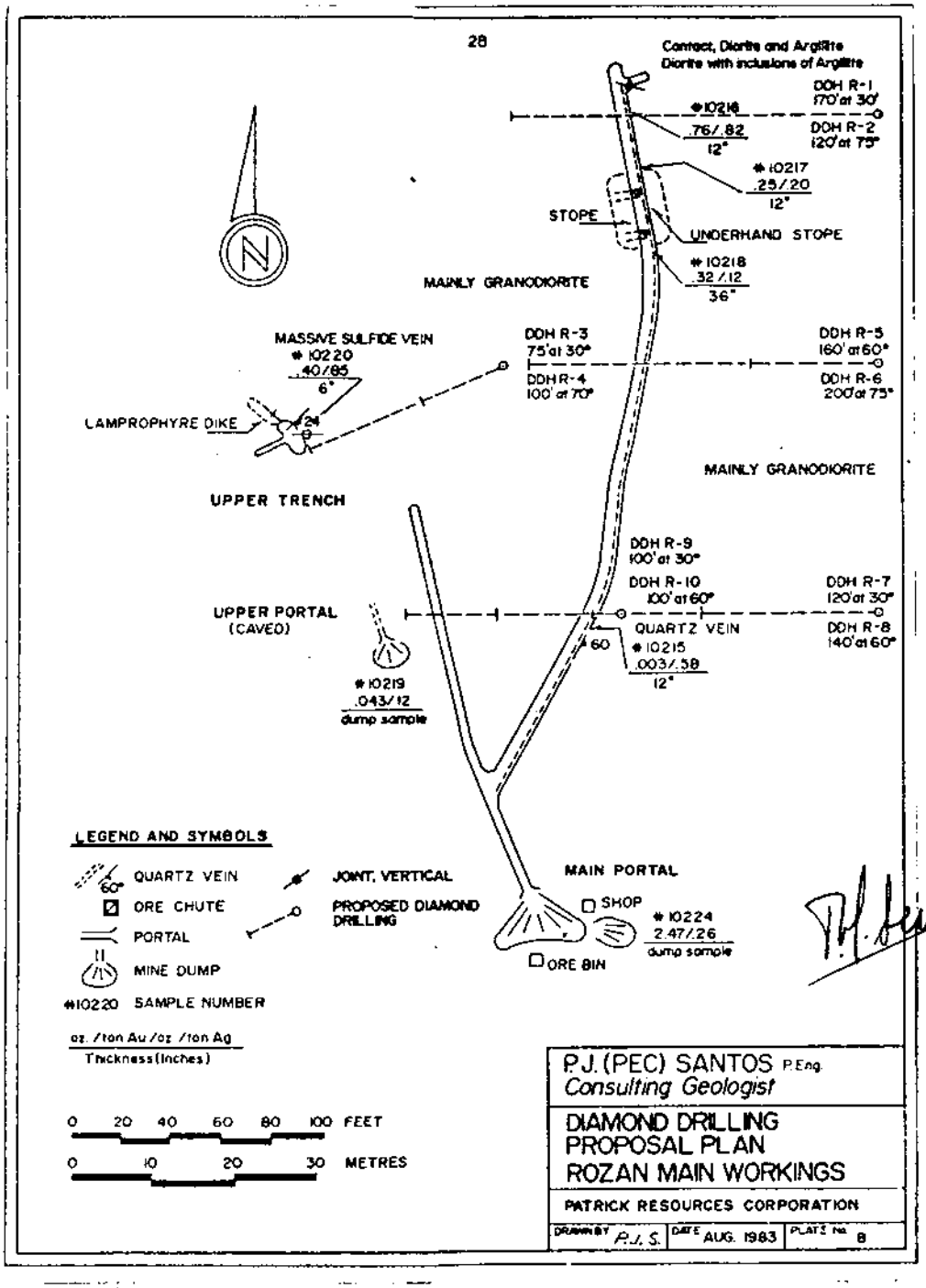
ROZAN GROUP

RED MOUNTAIN AREA, NELSON, B.C.

GEOCHEMICAL SURVEY

PETER H. SEVENSMA, PH.D.,PENG.

N.T.S. 82 F/ 6W	SCALE: 1:20,000	FIGURE
DATE: NOVEMBER, 1988	DRAWN: P.S. /dw	6


28
Contact, Diorite and Argillite
Diorite with inclusions of Argillite
DDH R-1
170' at 30°
#10216
.76/.82
12"
DDH R-2
120' at 75°
#10217
.25/.20
12"
STOPE
UNDERHAND STOPE
#10218
.32/.12
36"
MAINLY GRANODIORITE
MASSIVE SULFIDE VEIN
#10220
.40/.85
6"
DDH R-3
75' at 30°
DDH R-4
100' at 70°
DDH R-5
160' at 60°
DDH R-6
200' at 75°
LAMPROPHYRE DIKE
24
MAINLY GRANODIORITE
UPPER TRENCH
DDH R-9
100' at 30°
DDH R-10
100' at 60°
DDH R-7
120' at 30°
UPPER PORTAL
(CAVED)
QUARTZ VEIN
60
#10215
.003/.58
12"
DDH R-8
140' at 60°
#10219
.043/12
dump sample
LEGEND AND SYMBOLS
QUARTZ VEIN
ORE CHUTE
PORTAL
MINE DUMP
#10220 SAMPLE NUMBER
oz. /ton Au /oz /ton Ag
Thickness (Inches)
JOINT, VERTICAL
PROPOSED DIAMOND DRILLING
MAIN PORTAL
SHOP
#10224
2.47/.26
dump sample
ORE BIN
0 20 40 60 80 100 FEET
0 10 20 30 METRES
P.J. (PEC) SANTOS P.Eng.
Consulting Geologist
DIAMOND DRILLING
PROPOSAL PLAN
ROZAN MAIN WORKINGS
PATRICK RESOURCES CORPORATION
DRAWN BY P.J.S.
DATE AUG. 1983
PLATE No. 8

STATE THAT: [NOTE: If only paying cash in lieu, turn to reverse and complete columns G to J and S to V.]

1. I have done, or caused to be done, work on the Rozan Group: Rozan, Golden Eag
Golden Eagle #2, Golden Eagle #3 and G. Eagle #5, Goldft. Gold #2 Claim(s)

Record No(s). 1281, 1629, 1004, 1005, 1006, 4464, 4465,

Situate at Hall Cr. - Fortynine Cr. in the Nelson M.D. Mining Division,

Work was done from June 29, 19 88, to Sept 30, 19 88 (n Co

TYPE OF WORK

PHYSICAL: Work such as trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails. Details as requir under section 13 of the Regulations, including the map and cost statement, must be given on this statement.

PROSPECTING: Details as required under section 9 of the Regulations must be submitted in a technical report. Prospecting work ca only be claimed once by the same owner of the ground, and only during the first three years of ownership.

GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL, DRILLING: Details must be submitted in a technical report conforming to sections through 8 (as appropriate) of the Regulations.

PORTABLE ASSESSMENT CREDIT (PAC) WITHDRAWAL: A maximum of 30% of the approved value of geological, geophysic geochemical and/or drilling work on this statement may be withdrawn from the owner's or operator's PAC account a added to the work value on this statement.

TYPE OF WORK (Specify Physical (include details), Prospecting, Geological, etc.)	VALUE OF WORK Physical	*Prospecting	*Geological etc.
1. Air topomap by Nadiz Mapping Corp. July 12-18/88, & auxiliary printing.			2,244.35
2. Line cutting, July 15 - Aug. 5, 10.2 km @ $275 Jack Denny & Raymond Thomas			2,793.75
3. Soil sampling, July 15 - Aug 27/88, as required Jac Denny, Raymond Thomas. $120/day and $40/d. of W.D. truck.			1,701.06
4. Camp costs, July 18 - August 12/88			2,467.35
5. Assaying, 502 Soils, 34 rock, ICP30 + Au ppb Acme Labs, Oct 31/87 - Sept 5/88			5,986.95
Kamloops Labs, Aug 2 - Sept 8/88			994.15
6. Geological Engineering, Pec Santos REng. July 2 - Sept 7/88. REPORT TO FOLLOW			9,417.55
TOTALS	A +	B +	C 25,105.16 D
PAC WITHDRAWAL — Maximum 30% of Value in Box C Only			E → E
from account(s) of			TOTAL F

* Who was the operator (provided the financing)?

Name P. H. Sevensma

Address Box 520. Lions Bay, BC VON 2EO Phone: 921-6214

Transfer amount in Box F to reverse side and complete as required.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 29 1988 DATE REPORT MAILED: Sept 5/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

HIAWATHA RESOURCES INC. File # 88-3996

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
P-1	4	17	26	134	.1	3	2	158	4.50	8	5	ND	1	7	1	10	2	66	.07	.072	8	22	.22	31	.13	2	4.56	.01	.05	1	3
P-2	3	29	14	57	.4	17	7	254	4.11	5	5	ND	3	21	1	5	2	85	.12	.088	13	44	.56	82	.20	2	2.87	.01	.11	1	23
P-3	3	30	29	64	.2	10	7	234	6.22	11	5	ND	4	14	1	2	2	102	.11	.118	9	34	.63	61	.19	2	4.00	.01	.11	1	4
P-4	3	22	17	26	.4	5	4	119	4.30	5	5	ND	5	8	3	3	2	52	.05	.128	7	30	.15	27	.13	5	6.43	.01	.04	1	1
P-5	3	18	20	31	.6	4	3	91	4.00	2	5	ND	5	12	2	2	2	53	.13	.101	5	18	.13	29	.13	5	6.75	.01	.03	1	6
P-6	2	24	20	66	.3	15	8	456	3.43	2	5	ND	5	12	1	2	2	59	.07	.062	11	29	.45	77	.16	8	4.49	.01	.09	1	3
P-7	2	25	28	51	.5	7	7	229	3.60	4	5	ND	3	16	1	4	2	56	.09	.103	7	21	.52	47	.11	3	4.58	.01	.07	1	41
P-8	2	23	16	44	.1	7	6	232	3.78	5	5	ND	2	16	1	6	2	66	.12	.063	7	21	.45	54	.12	2	3.84	.01	.06	2	109
P-9	3	39	14	86	.1	15	12	496	6.39	6	5	ND	2	27	1	2	2	104	.19	.141	7	39	1.19	64	.15	2	2.57	.01	.12	1	25
P-10	2	22	15	44	.1	6	6	251	2.76	4	5	ND	1	13	1	2	3	58	.08	.061	8	16	.39	32	.13	2	2.62	.01	.06	1	88
P-11	4	45	17	83	.4	19	9	450	4.26	9	5	ND	2	21	1	4	2	73	.15	.181	9	42	.99	71	.13	2	3.91	.01	.12	1	43
P-12	6	30	15	74	.3	16	9	389	4.01	6	5	ND	2	21	1	2	2	68	.15	.095	9	37	.77	70	.16	2	4.13	.01	.09	1	46
P-13	3	69	20	85	.5	24	13	394	5.28	5	5	ND	6	23	1	2	2	86	.17	.109	11	65	1.15	65	.20	2	4.96	.01	.11	2	26
P-14	12	36	22	94	.3	19	11	764	4.15	9	5	ND	2	23	2	8	2	68	.15	.256	8	38	.83	74	.13	2	3.67	.01	.09	2	5
P-15	9	57	14	102	.6	23	15	810	4.58	4	5	ND	3	48	1	2	3	82	.60	.092	15	54	1.29	78	.14	4	3.59	.01	.14	1	69
P-16	3	33	17	77	.1	31	11	429	4.94	5	5	ND	3	57	1	3	2	82	.25	.120	20	69	1.20	77	.18	2	4.54	.01	.12	1	1
P-17	2	20	16	31	.5	5	4	170	3.69	2	5	ND	6	9	2	2	2	43	.06	.067	8	18	.23	29	.12	6	5.74	.01	.05	1	45
P-18	4	23	18	55	.4	13	7	284	4.12	4	5	ND	2	23	1	5	2	70	.14	.048	9	38	.59	73	.21	3	2.74	.01	.07	1	6
P-19	7	54	22	100	.1	38	17	974	4.59	5	5	ND	3	69	1	3	2	81	.52	.124	21	66	1.37	97	.17	4	3.89	.01	.12	1	2
P-20	8	45	20	90	.3	29	17	630	4.82	8	5	ND	5	66	1	4	2	94	.46	.078	19	59	1.33	99	.21	5	3.28	.01	.13	1	14
P-21	3	24	18	44	.2	10	6	215	4.56	4	5	ND	4	21	1	2	2	75	.13	.049	12	34	.49	60	.18	2	3.83	.01	.06	1	3
P-22	4	25	21	50	.1	12	7	251	3.46	4	5	ND	3	19	1	7	2	62	.13	.053	10	31	.60	63	.15	2	3.50	.01	.08	2	29
P-23	3	15	13	40	.1	6	5	235	4.24	4	5	ND	2	17	1	2	2	64	.10	.044	7	20	.36	41	.15	2	2.53	.01	.05	3	27
P-24	12	50	25	126	.4	16	12	1980	3.46	9	5	ND	2	63	1	9	2	63	1.07	.114	19	42	.80	102	.10	6	3.79	.02	.10	2	315
P-25	8	46	20	111	.1	18	13	1249	3.69	6	5	ND	1	53	1	2	2	63	.80	.092	16	44	.92	95	.14	2	4.18	.02	.10	1	28
P-26	3	41	17	54	.3	11	8	399	4.15	5	5	ND	4	19	3	3	4	62	.13	.103	8	29	.56	66	.13	1	3.51	.01	.07	1	21
STD C/AU-S	20	62	43	132	7.2	72	31	1049	4.11	41	18	8	39	51	20	18	19	64	.49	.088	40	62	.93	180	.07	33	2.00	.06	.16	13	51

ACME ANAL ICAL LABORATORIES LTD. 852 E. TINGS ST. VANCOU R B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 1-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 12 1988 DATE REPORT MAILED: Aug 20/88 ASSAYER. C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

HIAWATHA RESOURCES File # 88-3515 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
10+00S 3+50W	2	31	16	79	.4	14	7	558	3.93	6	5	ND	1	22	1	2	2	74	.19	.068	7	30	.53	85	.14	4	2.66	.01	.06	2	24
10+00S 3+00W	3	26	18	55	.4	14	8	291	3.92	9	5	ND	1	23	1	2	2	60	.23	.051	9	31	.50	77	.15	4	5.65	.01	.05	3	21
10+00S 2+50W	4	71	14	76	.8	31	17	847	5.07	7	5	ND	1	99	1	2	2	96	.88	.153	26	47	1.21	251	.14	7	2.56	.02	.25	11	180
10+00S 2+00W	3	35	16	80	.4	17	8	494	4.51	6	5	ND	1	27	1	2	2	77	.20	.189	11	28	.74	116	.14	7	3.62	.01	.09	5	134
10+00S 1+50W	5	45	21	84	.6	25	13	1047	5.04	7	5	ND	1	63	1	2	2	97	.68	.070	12	36	.87	179	.18	8	2.58	.02	.11	15	97
10+00S 1+00W	4	36	20	97	.7	21	12	941	4.53	4	6	ND	1	62	1	2	2	78	.40	.136	11	30	.68	167	.15	4	3.42	.02	.09	6	28
10+00S 0+50W	6	77	15	88	.5	39	15	820	4.80	4	5	ND	1	83	1	2	2	90	.73	.153	22	67	1.20	191	.13	2	3.05	.02	.19	14	181
10+00S 0+00W	3	43	19	123	.4	24	12	1960	4.17	5	5	ND	1	35	1	2	2	66	.40	.175	11	31	.67	234	.13	3	3.36	.02	.10	13	230
R-20A	5	86	17	102	.7	38	16	1263	4.49	10	5	ND	1	115	1	2	2	100	1.69	.115	29	53	1.39	111	.10	5	2.90	.03	.22	11	41
R-21	4	90	17	87	.3	45	18	542	5.08	5	5	ND	1	65	1	2	2	97	.58	.079	12	46	1.36	182	.18	5	3.70	.02	.31	15	82
R-22	2	64	16	116	.5	42	18	964	4.76	2	5	ND	1	46	1	2	2	83	.42	.121	13	45	1.25	283	.21	8	4.57	.02	.24	4	19
R-23	8	121	24	161	.5	49	30	1771	5.33	7	5	ND	1	42	1	2	2	93	.35	.087	21	42	1.22	193	.18	6	4.54	.02	.18	20	10
R-24	1	37	16	43	.5	16	9	347	2.92	2	5	ND	1	40	1	2	2	36	.49	.091	13	12	.35	73	.17	9	7.10	.02	.06	2	4
R-25	4	107	22	109	.5	44	17	579	4.90	7	5	ND	1	57	1	2	2	67	.48	.149	17	45	1.26	221	.14	7	5.30	.01	.19	12	34
R-26	3	77	21	190	.5	47	24	1553	5.49	13	5	ND	1	63	1	2	2	96	.49	.079	13	48	1.28	267	.20	7	4.77	.02	.22	9	20
R-27	2	46	21	150	.3	49	18	451	4.81	21	5	ND	1	86	1	2	2	73	.64	.311	10	33	.95	187	.20	9	5.80	.02	.11	5	13
R-28	2	61	25	244	.9	57	26	2324	5.65	14	5	ND	1	68	2	2	2	84	.47	.180	16	43	1.22	482	.21	8	3.81	.02	.21	9	48
R-29	3	71	21	255	.3	75	22	956	6.31	24	5	ND	1	75	1	2	2	103	.62	.250	17	64	1.77	435	.23	5	4.11	.02	.19	16	58
R-30	2	44	17	59	.4	18	8	225	3.09	11	5	ND	3	13	1	2	2	41	.08	.098	18	19	.60	73	.20	5	6.84	.02	.03	7	15
R-31	1	46	20	124	.3	71	20	733	4.69	9	5	ND	1	396	1	2	2	66	1.84	.548	77	34	2.02	820	.30	5	5.08	.02	.59	3	4
R-32	3	62	19	148	.6	34	18	982	5.29	10	5	ND	1	36	1	2	2	95	.27	.166	11	44	1.11	163	.19	5	4.89	.02	.12	8	14
R-33	3	64	20	101	.3	29	16	546	4.27	6	5	ND	1	31	1	2	2	76	.28	.106	13	38	.90	120	.18	6	5.92	.02	.08	8	1655
R-34	2	53	19	121	.4	30	17	1429	4.67	6	5	ND	1	29	1	2	2	87	.25	.095	9	64	1.05	157	.19	2	4.09	.02	.09	3	8
R-35	3	63	16	105	.3	29	18	746	4.67	9	5	ND	1	29	1	2	2	84	.26	.083	9	42	1.06	134	.20	7	4.90	.02	.08	3	10
R-37	2	75	19	103	.2	32	18	752	4.43	11	5	ND	1	31	1	2	2	77	.26	.114	13	43	1.06	155	.19	6	5.31	.02	.11	2	11
R-38	2	61	14	101	.6	28	19	826	4.35	10	5	ND	1	28	1	2	2	74	.23	.108	11	42	.98	114	.18	5	4.73	.01	.12	2	33
R-39	1	49	17	114	.6	27	18	848	4.52	8	5	ND	1	33	1	2	2	80	.30	.126	7	45	.98	135	.16	2	3.49	.01	.09	2	1
R-40	1	46	16	162	.3	26	18	986	4.30	13	5	ND	1	30	1	2	2	76	.25	.140	6	42	.90	142	.18	5	3.43	.02	.06	1	74
R-41	1	64	16	176	.3	28	19	1190	4.38	12	5	ND	1	33	1	2	2	75	.31	.154	10	44	1.04	172	.18	3	3.95	.02	.10	2	1
R-42	1	70	14	93	.3	32	17	397	4.75	7	5	ND	1	34	1	2	2	87	.29	.131	9	49	1.19	115	.17	4	4.78	.01	.09	2	17
R-43	1	69	15	120	.3	30	18	569	5.23	11	5	ND	1	37	1	2	2	91	.32	.234	6	51	1.47	132	.17	3	4.70	.01	.13	3	121
R-44	2	69	14	86	.2	38	21	502	4.98	12	5	ND	1	45	1	2	2	85	.39	.087	13	59	1.38	139	.20	3	5.56	.02	.10	4	465
R-44A	1	65	12	73	.1	33	20	582	4.27	13	5	ND	1	80	1	2	2	75	.76	.105	11	54	1.41	120	.15	2	1.99	.02	.23	2	13
R-45	1	77	13	97	.3	40	20	585	4.71	8	5	ND	1	39	1	2	2	81	.38	.136	6	55	1.35	111	.19	5	4.53	.01	.15	1	3
R-46	1	44	16	109	.4	26	15	1211	4.11	7	5	ND	1	27	1	2	2	68	.26	.121	8	39	.82	135	.17	2	3.97	.01	.06	3	11
R-47	1	66	17	118	.1	26	18	867	4.57	11	5	ND	1	32	1	2	2	73	.31	.248	6	45	.96	119	.15	3	3.47	.01	.08	3	5
STD C/AU-S	17	58	39	132	6.9	67	29	1123	4.13	39	19	7	36	50	18	16	19	57	.50	.083	39	57	.94	171	.06	39	1.97	.06	.13	11	52

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
R-48	1	93	13	90	.1	28	18	534	4.61	3	5	ND	1	47	1	2	2	93	.32	.136	9	53	1.27	145	.20	4	3.63	.01	.14	1	1
R-49	1	89	17	115	.1	35	23	1095	5.40	2	5	ND	1	56	1	2	2	102	.40	.228	5	64	1.54	156	.19	5	3.31	.01	.15	1	11
R-49A	1	133	15	90	.4	106	32	1020	5.20	2	5	ND	1	75	1	2	2	116	1.04	.094	6	144	2.30	147	.17	12	2.75	.02	.39	1	7
CM 0	2	51	26	95	.1	64	15	882	4.69	4	5	ND	3	78	1	3	2	94	.42	.304	24	124	1.41	140	.24	6	4.10	.02	.08	3	41
CM 1	1	61	20	93	.1	72	17	814	4.91	5	5	ND	2	90	1	2	2	103	.45	.237	28	156	1.66	157	.29	5	3.44	.01	.07	2	42
CM 2	2	63	23	91	.1	79	18	519	5.25	3	5	ND	4	62	1	2	2	108	.31	.286	27	165	1.79	169	.32	3	4.35	.02	.14	1	9
CM 3	2	30	21	82	.1	41	10	362	4.89	9	5	ND	3	26	1	2	2	89	.12	.189	12	105	.95	90	.27	3	3.61	.02	.06	1	4
CM 4	2	52	17	57	.1	55	14	369	4.49	6	5	ND	2	99	1	2	2	99	.59	.285	30	138	1.27	138	.21	5	3.61	.01	.10	1	17
CM 5	1	55	19	75	.2	53	16	456	4.69	3	5	ND	6	47	1	2	2	98	.24	.243	19	111	1.30	132	.25	5	4.15	.01	.12	1	15
CM 6	1	82	20	71	.1	56	18	442	4.97	2	5	ND	1	151	1	2	2	103	.84	.258	39	108	1.46	249	.22	9	3.66	.02	.13	2	24
CM 7	11	190	24	88	.4	29	25	721	5.89	9	5	ND	1	117	1	2	2	99	.44	.198	18	42	1.21	162	.18	7	5.42	.01	.11	21	71
CM 8	6	187	25	73	.6	19	36	1071	5.94	2	5	ND	1	179	1	2	2	82	1.29	.152	15	24	.92	102	.16	3	7.99	.02	.09	17	470
CM 9	4	84	22	78	.1	63	17	564	5.28	14	5	ND	4	99	1	2	2	104	.66	.334	23	102	1.61	146	.24	12	6.25	.01	.11	8	100
CM 10	5	40	26	81	.3	23	8	393	4.81	11	5	ND	4	20	1	2	2	82	.11	.123	10	52	.67	67	.20	3	5.50	.01	.10	12	16
CM 11	3	109	21	87	.1	74	22	630	5.59	7	5	ND	5	68	1	2	2	121	.41	.256	22	112	1.85	159	.28	4	5.02	.01	.14	14	30
CM 12	3	63	26	98	.2	49	17	583	4.66	17	5	ND	4	28	1	2	2	97	.14	.183	18	90	1.15	133	.26	2	5.48	.02	.12	7	95
CM 13	1	84	26	106	.1	110	25	767	5.33	3	5	ND	4	224	1	2	2	105	.97	.451	62	165	2.15	279	.27	14	4.08	.02	.22	3	44
CM 14	3	47	18	78	.1	61	15	592	5.90	8	5	ND	4	90	1	2	2	104	.46	.607	33	133	1.46	151	.24	3	4.84	.02	.10	2	9
CM 15	2	93	22	116	.1	114	24	670	6.17	8	5	ND	5	208	1	2	2	123	.89	.470	49	199	2.46	226	.29	12	4.96	.02	.19	2	8
CM 16	2	49	29	69	.2	38	10	322	3.63	6	5	ND	6	22	1	5	2	62	.09	.230	20	66	.70	111	.23	4	6.03	.02	.05	2	2
CM 17	2	63	22	102	.1	56	14	458	5.19	4	5	ND	3	72	1	2	2	99	.31	.291	23	120	1.55	132	.27	6	5.44	.01	.11	1	3
CM 18	2	70	18	88	.2	35	13	354	4.87	19	5	ND	2	34	1	2	3	83	.21	.136	13	41	1.19	117	.19	9	4.42	.01	.06	2	22
Leach → 706	12	99	14	227	.7	48	10	1209	11.83	87	5	ND	2	209	2	3	2	72	6.01	.429	8	39	.80	49	.06	2	1.44	.02	.05	1	13
STD C/AU-S	18	61	38	130	6.8	69	29	1059	3.76	42	19	8	36	52	19	18	20	59	.45	.086	40	59	.86	173	.07	39	1.74	.06	.14	12	50

ACME ANALYTICAL LABORATORIES LTD. 852 E. TINGS ST. VANCOUVER B.C. V6A 1R(PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 18 1988 DATE REPORT MAILED: Aug 20/88 ASSAYER: C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

HIAWATHA RESOURCES INC. File # 88-3696

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
R-36	2	71	15	106	.2	30	18	732	4.22	8	5	ND	3	25	1	2	3	79	.27	.097	10	45	1.08	128	.19	2	4.39	.01	.10	3	44

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .100 GRAM SAMPLE IS DIGESTED WITH 1ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 2 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 6 1988 DATE REPORT MAILED: Aug 15/88 ASSAYER. C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

HIAWATHA RESOURCES File # 88-3339

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
2+00N 0+50E	3	63	24	99	.3	23	9	436	4.12	11	5	ND	3	20	1	2	2	67	.15	.171	11	33	.75	116	.17	2	4.20	.01	.10	1	37
2+00N 1+00E	2	22	24	81	.4	18	9	1599	3.17	4	5	ND	2	25	2	2	2	55	.19	.104	12	25	.57	137	.18	2	2.35	.01	.10	1	35
2+00N 1+50E	1	28	22	65	.2	9	6	343	2.86	2	5	ND	3	13	2	3	3	48	.08	.074	9	17	.39	50	.11	2	2.57	.01	.07	1	9
2+00N 2+00E	1	18	33	62	.7	8	4	242	3.49	9	5	ND	4	6	1	4	3	43	.04	.100	6	16	.20	40	.16	2	5.73	.01	.06	2	11
2+00N 2+50E	4	76	32	120	.2	29	13	407	4.93	15	5	ND	4	26	3	3	2	71	.12	.093	14	35	.95	114	.15	2	3.91	.01	.15	2	45
2+00N 3+00E	7	99	44	164	.2	42	11	380	5.48	24	5	ND	4	20	2	2	2	97	.07	.106	12	44	1.02	119	.21	2	5.37	.01	.17	4	56
2+00N 3+50E	11	70	62	319	.5	92	34	1159	6.24	23	5	ND	4	22	5	2	2	98	.10	.128	15	138	2.68	150	.24	2	5.32	.01	.20	1	216
0+50N 0+00E	2	23	15	75	.1	17	7	327	3.80	10	5	ND	2	15	1	2	2	59	.12	.161	9	26	.54	98	.17	2	3.87	.01	.07	1	5
0+50N 0+50E	6	40	24	99	.3	26	13	780	4.19	13	5	ND	3	30	1	2	2	73	.29	.119	19	38	1.03	113	.17	3	3.40	.01	.11	1	209
0+50N 1+00E	2	33	18	83	.2	22	9	389	3.88	11	5	ND	4	19	2	2	2	67	.16	.081	13	31	.79	97	.19	2	3.44	.01	.09	2	48
0+50N 1+50E	3	43	17	92	.2	23	11	658	3.93	9	5	ND	2	21	1	2	2	69	.18	.093	15	32	.87	92	.15	2	3.31	.01	.12	2	265
0+50N 2+00E	2	31	27	89	.3	21	9	549	3.79	5	5	ND	4	17	1	2	2	61	.13	.096	11	29	.76	114	.21	2	3.34	.01	.11	2	14
0+50N 2+50E	2	28	29	80	.7	10	6	482	3.09	6	5	ND	3	11	3	2	2	46	.08	.092	9	16	.35	63	.16	4	3.75	.01	.07	1	18
0+50N 3+00E	1	25	33	54	.4	7	6	667	3.05	5	5	ND	4	8	1	3	2	44	.04	.147	6	15	.25	50	.16	2	4.76	.01	.05	2	16
0+50N 3+50E	1	30	49	70	1.1	10	5	237	3.79	8	5	ND	4	8	1	2	2	50	.04	.132	7	20	.32	45	.16	2	5.89	.01	.07	1	44
0+50N 4+00E	1	23	15	52	.4	8	4	216	2.98	6	5	ND	3	7	1	4	2	43	.04	.083	6	16	.23	42	.16	2	5.07	.01	.04	2	11
0+00N 0+00E	4	35	16	85	.8	23	11	793	4.08	12	5	ND	2	43	3	2	2	69	.44	.088	27	36	1.04	115	.13	2	2.81	.01	.11	1	265
0+00N 0+50E	2	26	31	91	.4	20	9	580	3.89	9	5	ND	3	24	2	2	2	68	.22	.148	13	32	.64	87	.18	2	4.54	.01	.10	2	52
0+00N 1+00E	3	32	20	72	.5	19	9	363	3.43	6	5	ND	4	21	3	2	2	58	.19	.108	12	24	.62	81	.17	2	5.09	.01	.09	1	225
0+00N 1+50E A	4	39	33	90	.2	25	11	712	3.88	11	5	ND	3	25	2	2	2	67	.22	.093	18	32	.91	101	.17	2	3.64	.01	.10	2	32
0+00N 1+50E B	2	30	19	93	.5	21	13	747	4.08	9	5	ND	3	21	2	2	3	69	.18	.096	15	32	.81	95	.18	2	3.25	.01	.09	1	123
0+00N 2+00E	5	45	22	92	.5	22	11	654	4.08	8	5	ND	3	29	2	2	2	71	.26	.073	20	39	.99	106	.16	2	3.46	.01	.11	2	59
0+00N 2+50E	1	43	33	69	.2	36	12	433	3.69	5	5	ND	4	28	2	2	2	56	.25	.131	16	40	1.15	181	.19	4	3.01	.01	.13	1	22
0+00N 3+00E	1	72	43	73	.4	12	9	492	3.18	6	5	ND	2	20	1	2	2	47	.11	.090	13	20	.59	55	.09	2	2.94	.01	.08	2	58
0+00N 3+50E	1	66	73	104	.6	17	9	321	3.46	9	5	ND	4	16	2	2	2	54	.08	.096	11	25	.67	72	.14	2	3.99	.01	.09	1	44
0+00N 3+90E	3	51	53	105	.1	16	9	451	3.55	12	5	ND	3	16	1	2	2	60	.11	.089	10	26	.64	73	.13	4	3.27	.01	.12	4	89
STD C/AU-S	18	57	36	132	7.1	67	28	1026	3.99	39	17	7	37	45	17	16	21	56	.47	.090	39	58	.90	176	.07	33	1.94	.06	.13	12	51

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 10 1988 DATE REPORT MAILED: Aug 16/88 ASSAYER. C. Leong. D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

HIAWATHA RESOURCES INC. PROJECT ROZAN File # 88-3450 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
2+50N 8+00W	1	28	15	58	.5	38	9	302	5.09	4	13	ND	3	48	1	3	3	80	.28	.164	25	72	1.16	126	.25	3	3.62	.01	.20	1	2
2+50N 7+50W	3	24	15	64	.3	20	6	211	5.15	2	6	ND	5	15	1	2	2	61	.08	.107	12	41	.57	100	.18	3	5.44	.01	.09	1	18
2+50N 7+00W	6	42	12	58	.8	8	6	296	5.54	2	5	ND	2	14	1	2	2	97	.14	.199	6	16	.45	51	.10	2	4.81	.01	.09	1	4
2+50N 6+50W	2	21	13	36	.4	6	4	175	4.15	2	5	ND	3	8	1	2	2	66	.06	.080	6	13	.26	32	.12	3	4.58	.01	.08	1	107
2+50N 6+00W	1	23	12	58	.4	9	6	262	3.45	2	5	ND	2	11	1	2	2	59	.11	.103	5	12	.49	40	.12	2	4.95	.01	.09	1	23
2+50N 5+50W	1	37	11	71	.5	6	10	337	4.44	2	5	ND	1	23	1	2	2	124	.25	.058	6	9	.93	49	.16	4	3.49	.02	.09	1	560
2+50N 5+00W	3	33	13	42	.6	7	5	376	3.31	2	5	ND	1	12	1	2	2	51	.09	.080	9	14	.34	37	.08	3	4.21	.01	.07	5	59
2+50N 4+50W	2	30	13	50	.4	6	5	303	4.42	3	5	ND	2	19	1	2	1	69	.11	.058	7	10	.63	62	.12	2	3.32	.01	.16	6	47
2+50N 4+00W	5	43	16	52	.7	8	6	776	4.87	6	5	ND	2	65	1	2	2	49	.12	.064	12	14	.44	57	.08	3	2.52	.01	.10	15	2110
2+50N 3+50W	4	26	25	42	.4	10	5	250	3.32	8	8	ND	2	20	1	2	2	51	.09	.093	11	18	.47	68	.12	3	2.25	.01	.09	1	138
2+50N 3+00W	2	26	15	36	.4	6	3	248	3.01	4	5	ND	2	8	1	2	2	52	.07	.074	10	13	.25	44	.11	3	2.74	.01	.07	1	7
2+00N 8+00W	1	11	13	20	.3	4	2	112	2.45	3	5	ND	3	6	1	2	2	31	.04	.098	4	9	.09	25	.11	2	3.69	.01	.05	1	13
2+00N 7+50W	1	13	9	14	.3	4	2	56	1.36	2	5	ND	2	6	1	2	2	17	.05	.059	7	8	.08	14	.09	2	3.92	.02	.04	1	2
2+00N 7+00W	2	35	12	58	.4	31	12	381	4.13	2	5	ND	2	55	1	2	2	68	.35	.139	15	46	1.12	184	.15	5	3.71	.01	.13	1	93
2+00N 6+50W	2	23	17	52	.2	19	6	199	6.27	2	5	ND	4	12	1	2	3	63	.08	.175	7	31	.46	74	.19	3	4.80	.01	.08	9	7
2+00N 6+00W	1	17	17	44	.5	6	4	227	4.86	6	5	ND	3	9	1	2	2	85	.08	.074	6	13	.28	41	.15	2	3.27	.01	.08	1	2
2+00N 5+50W	2	27	15	59	.2	11	5	232	3.44	2	7	ND	4	9	1	2	2	56	.08	.106	8	14	.42	47	.14	4	4.99	.01	.10	1	11
2+00N 5+00W	1	20	15	33	.3	6	3	148	2.19	4	6	ND	3	6	1	2	2	34	.05	.080	6	9	.18	25	.12	2	5.31	.01	.06	1	18
2+00N 4+50W	1	29	15	91	.3	65	13	798	4.63	2	5	ND	1	79	1	2	2	79	.47	.221	25	43	1.66	390	.27	4	2.91	.01	.20	1	21
2+00N 4+00W	2	61	18	72	.4	12	6	1086	3.55	6	5	ND	1	14	1	2	3	59	.09	.089	8	16	.43	61	.11	2	2.50	.01	.08	1	51
2+00N 3+50W	2	26	16	46	.3	12	5	253	2.49	3	5	ND	2	14	1	2	2	45	.10	.082	11	14	.36	45	.11	5	4.13	.01	.08	1	36
2+00N 3+00W	2	52	20	76	.3	20	7	551	3.47	6	6	ND	4	25	1	2	2	53	.15	.101	15	23	.66	91	.10	2	3.85	.01	.10	1	32
1+50N 8+00W	1	12	12	25	.3	6	2	96	2.08	2	5	ND	3	8	1	2	3	25	.05	.069	6	11	.13	25	.11	4	4.79	.01	.06	1	3
1+50N 7+50W	8	23	20	74	1.1	20	9	1308	3.42	2	16	ND	1	65	1	2	3	66	.52	.099	39	36	.65	67	.15	4	3.89	.01	.12	3	98
1+50N 7+00W	4	20	21	51	.4	12	6	236	4.17	5	7	ND	4	13	1	2	3	61	.10	.086	14	16	.30	75	.19	3	3.37	.01	.10	2	9
1+50N 6+50W	1	26	18	113	.4	76	16	677	5.01	2	5	ND	2	113	1	2	2	76	.60	.333	32	96	1.71	326	.27	3	3.93	.01	.17	1	4
1+50N 6+00W	3	99	14	108	.5	133	27	789	6.41	2	7	ND	1	105	1	2	2	103	.66	.299	34	103	3.03	533	.33	2	4.08	.01	.23	1	116
1+50N 5+50W	2	22	14	42	.3	9	5	185	2.73	4	5	ND	4	9	1	2	2	49	.08	.087	5	10	.30	34	.14	2	4.89	.01	.07	1	17
1+50N 5+00W	2	26	19	45	.3	8	4	189	4.03	6	5	ND	2	8	1	2	2	71	.06	.088	8	12	.33	50	.16	2	3.55	.01	.08	2	9
1+50N 4+50W	2	40	17	88	.3	23	9	477	4.06	5	5	ND	1	20	1	2	2	64	.13	.075	16	27	.77	92	.16	4	3.47	.01	.12	1	39
1+50N 4+00W	3	39	16	57	.6	9	5	275	3.31	7	5	ND	2	13	1	2	2	42	.09	.120	8	12	.26	44	.12	3	5.26	.01	.06	1	12
1+50N 3+50W	3	59	17	63	.2	10	6	439	3.01	5	5	ND	2	10	1	2	2	43	.06	.113	8	14	.37	53	.12	3	4.93	.01	.08	1	23
1+50N 3+00W	2	47	16	64	.3	15	6	321	2.91	6	5	ND	2	16	1	2	2	44	.10	.072	11	18	.51	91	.11	2	4.06	.01	.07	1	105
1+00N 8+00W	7	25	23	94	.4	14	16	1046	3.04	4	5	ND	1	18	1	2	2	53	.15	.086	15	19	.40	65	.11	3	4.22	.01	.05	2	114
1+00N 7+50W	2	21	23	76	.4	27	11	602	4.34	8	6	ND	2	47	1	2	2	70	.24	.127	14	49	1.02	71	.16	3	3.09	.01	.08	5	189
1+00N 7+00W	2	15	16	60	.3	12	5	176	3.00	5	5	ND	3	11	1	3	3	43	.08	.082	6	16	.28	67	.14	5	4.19	.01	.07	1	19
STD C/AU-S	18	57	38	131	7.1	67	28	1055	4.04	37	21	6	35	45	18	19	22	55	.69	.089	37	55	.90	170	.06	35	1.95	.06	.13	11	52

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
1+00N 6+50W	3	28	18	86	.2	36	10	451	4.69	11	5	ND	5	26	1	2	2	72	.16	.151	13	39	.89	184	.25	6	4.76	.02	.26	1	14
1+00N 6+00W	2	26	20	65	.6	12	5	232	4.11	15	5	ND	6	11	1	5	2	66	.08	.086	9	19	.67	57	.20	3	5.12	.02	.20	1	3
1+00N 5+50W	2	31	15	72	.5	12	7	322	4.15	12	5	ND	4	13	1	3	3	73	.11	.098	7	17	.53	51	.18	4	5.46	.02	.22	1	12
1+00N 5+00W	2	39	15	77	.4	14	9	361	4.28	6	5	ND	4	17	1	2	2	85	.14	.091	11	17	.65	72	.18	4	4.66	.02	.21	1	82
1+00N 4+50W	3	61	18	87	.3	17	8	579	3.55	14	5	ND	3	26	1	2	2	58	.19	.139	13	19	.62	74	.15	6	5.04	.01	.19	12	61
1+00N 4+00W	2	72	15	89	.4	19	11	771	3.79	7	5	ND	3	33	1	2	2	68	.26	.091	13	22	.93	105	.16	3	3.75	.02	.22	2	96
1+00N 3+50W	3	203	17	103	1.0	17	10	755	3.77	5	5	ND	3	20	1	2	2	61	.17	.128	11	19	.62	66	.17	4	4.56	.01	.19	12	89
1+00N 3+00W	4	76	23	98	1.1	32	21	922	3.70	10	5	ND	2	26	1	2	2	62	.22	.099	32	31	.87	115	.15	11	4.02	.02	.24	1	64
0+50N 8+00W	6	58	22	98	.5	14	14	1781	5.10	5	5	ND	2	36	1	2	3	76	.20	.107	9	18	.63	143	.15	4	4.24	.02	.20	7	205
0+50N 7+50W	3	45	16	67	.4	18	10	642	5.26	6	5	ND	4	45	1	2	2	96	.23	.143	8	37	.93	64	.20	4	2.99	.01	.18	1	157
0+50N 7+00W	1	22	18	53	.8	21	7	254	4.06	5	6	ND	8	36	1	2	2	66	.13	.188	13	41	.63	60	.21	4	5.24	.02	.18	1	110
0+50N 6+50W	4	35	15	76	.3	20	10	421	4.78	6	5	ND	5	27	1	2	2	94	.21	.097	11	27	.88	82	.21	2	4.00	.02	.22	2	68
0+50N 6+00W	3	27	18	60	.7	11	6	299	4.40	6	5	ND	6	14	1	2	2	75	.11	.107	8	18	.45	54	.20	3	4.93	.02	.19	1	11
0+50N 5+50W	2	69	18	79	.8	25	11	411	4.08	8	9	ND	6	22	1	2	2	72	.17	.123	10	26	.84	122	.20	4	4.97	.02	.29	1	51
0+50N 5+00W	2	34	17	71	.7	11	7	305	4.12	11	7	ND	6	14	1	2	3	79	.11	.090	10	15	.55	58	.18	3	5.15	.02	.26	1	25
0+50N 4+50W	4	60	16	83	.4	21	10	493	4.14	6	5	ND	5	42	1	2	2	71	.36	.144	15	24	.87	98	.16	3	3.77	.02	.25	8	162
0+50N 4+00W	2	63	21	98	.3	54	12	808	3.79	6	5	ND	4	42	1	2	3	65	.29	.245	17	39	1.16	243	.21	11	4.47	.02	.33	1	28
0+50N 3+50W	5	60	25	104	.3	70	15	563	4.95	11	5	ND	6	49	1	2	2	89	.28	.130	23	41	1.98	581	.31	7	4.41	.02	.50	1	31
0+50N 3+00W	6	40	17	71	.5	12	5	296	3.01	8	5	ND	4	14	1	2	3	46	.10	.124	7	15	.34	70	.17	3	5.75	.02	.16	1	11
0+00N 9+00W	6	60	22	81	.3	13	10	1323	3.70	9	5	ND	2	29	1	4	2	68	.18	.096	9	23	.63	78	.14	6	3.68	.02	.16	4	118
0+00N 7+50W	2	33	15	62	.3	22	11	477	4.57	8	5	ND	6	46	1	2	2	80	.24	.115	13	43	.99	73	.19	3	3.98	.02	.17	1	285
0+00N 7+00W	5	39	17	71	.3	22	12	397	4.54	9	5	ND	4	37	1	3	3	92	.21	.111	18	38	1.06	111	.24	4	5.13	.02	.18	1	49
0+00N 6+50W	3	57	21	90	.1	74	17	514	5.65	12	5	ND	7	68	1	3	3	99	.45	.265	27	126	1.70	279	.32	6	6.76	.02	.26	9	108
0+00N 6+00W	1	42	22	129	.3	94	19	741	6.20	9	5	ND	5	139	1	3	2	94	1.14	.415	41	129	2.40	592	.28	11	3.54	.03	.49	2	43
0+00W 5+50W	3	35	18	81	.1	18	9	472	3.85	11	5	ND	4	19	1	3	2	72	.15	.115	8	20	.63	83	.21	4	5.23	.02	.17	4	63
0+00N 5+00W	3	30	20	84	.3	13	9	487	4.42	7	5	ND	4	21	1	2	2	83	.20	.112	8	16	.61	83	.20	5	4.45	.02	.23	1	61
0+00N 4+50W	4	49	21	84	.2	14	11	640	3.95	9	5	ND	2	22	1	4	2	71	.17	.131	13	18	.71	80	.15	7	4.78	.01	.18	2	37
0+00N 4+00W	3	42	22	124	.3	52	16	1405	4.11	11	5	ND	2	50	1	2	2	69	.39	.181	26	41	1.30	254	.24	14	3.62	.02	.29	1	19
0+00N 3+50W	6	37	21	72	.5	12	7	316	3.96	9	5	ND	4	13	1	2	2	67	.10	.110	13	17	.46	67	.20	5	4.34	.02	.39	1	14
0+00N 3+00W	5	57	17	89	.1	13	7	341	3.64	6	5	ND	2	13	1	2	3	55	.11	.108	10	17	.44	63	.17	6	4.83	.02	.14	1	46
2+00S 0+00E	2	38	17	85	.3	27	11	402	4.10	9	5	ND	4	32	1	2	3	64	.26	.206	16	29	.88	156	.17	5	3.77	.02	.26	1	91
2+00S 0+50E	2	24	17	108	.7	25	11	1376	4.50	8	5	2	2	46	1	2	3	76	.57	.078	23	31	1.27	114	.19	5	3.13	.02	.25	1	425
2+00S 1+00E	3	21	19	88	.6	19	9	644	3.89	4	5	ND	4	29	1	2	2	62	.32	.067	18	23	.77	97	.17	5	3.43	.02	.23	1	189
2+00S 1+50E	2	23	19	83	.4	15	7	462	3.66	7	5	ND	6	15	1	2	3	56	.11	.082	12	19	.55	85	.17	3	4.32	.01	.19	1	295
2+00S 2+00E	2	23	20	59	.7	13	6	318	3.10	10	5	ND	7	12	1	2	3	46	.07	.081	9	15	.33	67	.18	4	5.43	.02	.17	1	42
2+00S 2+50E	1	24	19	64	.4	13	5	287	3.03	7	5	ND	6	11	1	2	2	44	.07	.080	10	13	.29	70	.20	7	5.75	.02	.16	1	19
STD C/AU-S	17	57	37	132	7.3	68	28	1004	3.96	39	17	6	36	45	17	17	17	56	.48	.088	38	55	.89	174	.07	34	1.92	.05	.17	11	50

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
2+00S 2+00E	2	34	17	91	.1	20	10	620	3.69	4	5	ND	3	16	1	2	2	58	.10	.107	11	25	.78	78	.13	5	3.53	.01	.17	1	110
2+00S 3+50E	1	19	20	65	.3	10	4	484	2.78	2	5	ND	4	8	1	4	2	38	.06	.097	6	10	.21	70	.19	7	5.49	.02	.12	1	85
2+00S 4+00E	1	26	19	65	.3	14	6	423	3.06	3	5	ND	5	12	1	2	2	63	.08	.117	9	15	.39	75	.16	5	5.32	.02	.14	4	57
2+00S 4+50E	1	30	31	76	.3	15	8	697	3.58	3	5	ND	6	15	1	2	2	50	.10	.077	11	18	.56	77	.12	6	3.55	.01	.18	7	136
2+00S 5+00E	2	24	24	86	.5	14	7	837	3.73	2	5	ND	3	28	1	3	3	48	.09	.063	19	18	.64	102	.10	4	3.57	.01	.18	62	323
2+00S 5+50E	1	48	20	106	.3	120	19	696	5.97	2	5	ND	4	82	1	2	2	89	.61	.275	27	105	2.98	437	.36	3	3.72	.02	.42	2	53
2+00S 6+00E	8	60	28	144	.4	33	8	418	6.31	32	6	ND	5	37	1	3	2	80	.12	.086	11	35	.86	106	.17	6	3.46	.01	.23	7	412
2+00S 6+50E	29	90	23	122	.7	22	6	422	10.85	58	5	ND	4	25	1	2	2	79	.05	.133	7	35	.76	59	.11	6	4.55	.01	.21	3	30
2+00S 7+00E	7	37	23	82	.3	11	4	483	7.20	10	5	ND	2	28	1	2	3	111	.14	.142	5	50	.88	104	.13	9	2.71	.03	.25	1	2
2+00S 7+50E	3	106	20	150	.4	103	22	447	6.46	35	5	ND	5	36	1	3	2	85	.15	.140	13	92	1.85	295	.33	4	5.17	.02	.39	1	64
2+00S 9+00E	2	52	13	134	.2	49	16	835	6.42	8	5	ND	4	79	1	2	2	85	.31	.215	19	71	1.40	211	.25	7	3.44	.02	.31	3	8
2+00S 8+50E	1	58	25	118	.1	157	22	552	5.73	9	5	ND	3	326	1	2	2	79	1.53	.543	76	67	3.23	1176	.27	5	3.88	.03	.63	1	10
2+00S 9+00E	2	72	23	167	.1	52	17	587	6.54	14	5	ND	2	34	1	2	2	93	.18	.129	12	55	1.25	177	.17	4	4.37	.03	.16	1	6
6+00S 4+00W	2	35	21	116	.2	16	11	1890	3.95	2	5	ND	2	24	1	2	2	61	.22	.166	7	18	.62	163	.15	3	3.76	.02	.14	25	27
6+00S 3+50W	3	32	20	72	.1	13	8	724	4.00	4	5	ND	1	24	1	3	2	57	.23	.168	6	15	.48	133	.17	3	4.33	.02	.07	20	16
6+00S 3+00W	2	27	24	78	.1	18	10	600	3.76	3	5	ND	2	25	1	2	2	57	.23	.165	10	21	.51	135	.19	4	4.22	.02	.12	3	13
6+00S 2+50W	1	20	21	92	.1	16	10	549	4.64	9	5	ND	1	28	1	2	2	79	.24	.159	8	26	.63	177	.21	5	2.72	.02	.08	2	16
6+00S 2+00W	4	23	22	50	.3	16	9	330	3.67	2	5	ND	2	21	1	2	5	67	.23	.077	9	25	.40	127	.22	4	3.36	.02	.13	19	4
6+00S 1+50W	6	73	20	74	.1	34	12	606	4.50	8	5	ND	2	46	1	3	2	82	.36	.205	15	37	1.24	238	.16	4	3.42	.02	.26	12	53
6+00S 1+40W	5	50	20	105	.3	29	13	1163	4.35	5	5	ND	1	47	1	2	2	77	.41	.104	17	34	1.07	216	.16	5	3.38	.02	.25	10	76
6+00S 1+00W	3	65	16	91	.1	27	16	733	5.05	6	5	ND	2	46	1	2	2	90	.41	.249	9	34	1.20	182	.16	5	3.88	.01	.20	12	64
6+00S 0+50W	2	61	19	84	.1	29	12	457	4.31	3	5	ND	4	35	1	2	2	74	.27	.144	14	36	1.07	197	.17	3	3.63	.01	.24	9	82
6+00S 0+00E	2	48	17	96	.3	28	11	805	3.97	3	5	ND	3	34	1	2	2	63	.27	.183	18	34	.88	210	.16	4	3.46	.01	.22	4	79
6+00S 0+50E	3	37	20	111	.2	41	13	1103	3.91	3	5	ND	2	46	1	2	2	63	.45	.168	12	47	1.01	255	.18	10	2.74	.02	.23	4	38
6+00S 1+00E	3	53	16	126	.1	49	13	625	4.27	2	5	ND	3	37	1	2	2	68	.24	.186	12	57	1.06	196	.19	4	4.32	.02	.26	13	66
6+00S 1+50E	4	64	22	100	.1	38	14	901	4.76	2	5	ND	5	52	1	2	2	87	.32	.196	21	52	1.12	274	.23	4	3.47	.02	.34	18	223
6+00S 1+80E	6	48	22	96	.6	17	10	718	3.86	2	5	ND	1	32	1	2	2	59	.40	.059	19	21	.70	73	.14	4	3.35	.02	.17	21	59
6+00S 2+00E	7	95	31	113	.4	19	12	981	4.35	5	5	ND	4	22	1	2	2	63	.16	.136	10	19	.81	116	.13	5	3.78	.01	.25	29	92
6+00S 2+50E	8	110	17	110	.2	32	14	947	4.49	6	5	ND	4	19	1	2	3	74	.13	.076	9	53	1.04	115	.16	7	3.78	.01	.19	85	273
6+00S 3+00E	7	171	17	89	.4	21	10	472	4.50	8	5	ND	6	19	1	2	3	60	.09	.116	14	24	.77	83	.15	6	4.38	.01	.22	22	384
6+00S 3+50E	7	75	18	155	.3	24	14	1174	4.74	4	5	ND	3	29	1	2	4	58	.24	.095	12	22	.76	97	.13	5	3.98	.01	.19	63	168
6+00S 3+65E	18	71	19	94	.9	21	12	597	4.68	6	6	ND	4	40	1	2	2	82	.40	.057	19	27	.74	56	.17	7	4.86	.03	.20	30	323
6+00S 4+00E	31	127	20	125	.5	33	13	474	4.92	17	5	ND	5	21	1	2	4	71	.10	.089	9	22	.68	96	.15	4	5.00	.02	.20	35	83
6+00S 4+50E	22	119	22	96	.9	25	11	418	5.04	17	5	ND	5	16	1	2	5	68	.09	.075	9	21	.57	68	.17	5	5.46	.02	.21	17	77
6+00S 5+00E	8	110	44	218	.3	122	32	1928	6.49	16	5	ND	4	104	1	2	3	94	.66	.274	52	79	2.30	584	.31	8	3.99	.02	.41	3	122
6+00S 5+50E	16	87	32	162	.5	57	19	1314	5.59	25	5	ND	1	68	1	2	3	91	.73	.090	35	48	1.41	147	.20	5	3.18	.03	.28	14	394
STD C/AU-S	17	57	36	132	7.3	67	27	1024	4.08	41	22	7	36	45	17	17	23	56	.49	.088	38	55	.91	175	.07	32	1.94	.05	.17	11	50

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
6+00S 6+00E	41	181	22	219	.5	83	36	924	9.04	51	5	ND	5	95	3	2	2	98	.31	.246	17	52	1.49	482	.23	6	4.84	.01	.20	42	168
6+00S 6+50E	12	91	24	184	.2	34	16	666	9.47	27	5	ND	2	39	1	2	2	103	.20	.152	6	48	1.13	116	.14	2	4.29	.02	.16	13	33
6+00S 7+00E	3	71	27	233	.1	59	33	1431	6.39	44	5	ND	4	32	2	2	2	73	.20	.115	13	38	1.03	150	.18	2	4.76	.01	.15	12	53
6+00S 7+50E	2	48	26	119	.3	53	15	436	4.57	13	5	ND	6	21	1	2	2	67	.14	.112	15	46	1.16	195	.26	4	4.13	.01	.15	5	72
6+00S 8+00E	1	33	19	99	.2	25	10	565	3.50	16	5	ND	4	13	1	2	2	51	.09	.159	9	24	.46	109	.20	2	5.04	.02	.06	5	91
6+00S 8+50E	3	40	28	129	.3	27	15	757	5.21	21	5	ND	4	22	1	2	2	82	.14	.064	12	40	.79	104	.18	2	3.98	.01	.11	5	43
6+00S 9+00E	1	73	26	220	.1	98	23	754	6.16	25	5	ND	4	84	3	2	2	101	.02	.370	32	82	2.34	763	.24	2	4.99	.01	.30	3	89
STD C/AU-S	18	58	38	132	6.7	68	29	1023	4.25	42	18	8	39	48	17	16	19	59	.49	.096	40	61	.93	179	.07	33	2.00	.06	.14	11	49

ACME ANALYTICAL LABORATORIES LTD. 852 E. ASTINGS ST. VANCOUVER B.C. V6A 1R PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1 ROCK P2-P3 SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 4 1988 DATE REPORT MAILED: Aug 13/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

HIAWATHA RESOURCES File # 88-3236 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
701	15	248	2	39	.4	10	8	237	3.29	2	5	ND	2	68	1	2	2	69	.85	.055	5	20	.29	25	.20	7	1.17	.06	.14	41	8
702	4	9	21	4	.7	2	6	192	1.30	2	5	ND	1	3	1	2	90	5	.03	.006	2	5	.03	22	.01	2	.11	.01	.03	67	158
703	3	20	16	26	.7	4	8	520	2.20	2	5	ND	7	12	1	2	50	20	.20	.060	13	6	.27	50	.04	2	.67	.02	.16	21	86
704	11	14	31	9	7.0	5	69	87	6.45	3	5	ND	3	5	3	2	167	8	.05	.012	3	1	.12	15	.01	8	.19	.01	.06	73	640
705	6	12	16	10	5.3	3	2	403	1.71	2	5	ND	3	9	1	2	647	18	.13	.031	9	1	.27	31	.01	11	.32	.01	.08	1724	225
STD C	18	57	38	128	7.1	68	27	1019	3.98	38	17	7	37	49	17	18	21	55	.46	.091	39	57	.86	174	.07	37	1.90	.06	.14	12	-

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
2+50N 8+00W	1	21	18	46	.1	33	8	202	4.09	5	5	ND	4	44	2	2	2	88	.24	.107	19	73	1.09	99	.32	5	2.59	.01	.12	1	9
2+50N 7+50W	2	20	18	44	.1	18	6	203	2.87	6	5	ND	3	34	2	2	3	63	.17	.083	13	28	.53	190	.22	5	2.39	.01	.10	1	16
2+50N 7+00W	4	31	7	62	.4	6	4	214	5.02	9	5	ND	1	12	1	2	2	110	.11	.148	6	17	.35	47	.37	2	4.02	.01	.07	2	26
2+50N 6+50W	3	17	15	37	.1	6	4	211	3.50	3	5	ND	1	12	1	2	2	104	.10	.057	7	14	.38	43	.19	2	2.34	.01	.05	1	112
2+50N 6+00W	1	30	16	69	.1	11	8	379	4.55	7	5	ND	3	16	1	2	2	92	.16	.156	7	18	.62	57	.17	3	3.54	.01	.09	1	20
2+00N 7+50W	2	19	11	27	.1	9	3	123	2.66	4	5	ND	3	14	1	2	2	43	.08	.086	9	24	.22	49	.17	2	3.77	.02	.03	1	4
2+00N 6+50W	4	21	19	47	.1	15	5	159	5.76	9	5	ND	5	11	1	4	2	105	.07	.129	7	37	.40	61	.27	2	3.21	.01	.06	6	5
2+00N 6+00W	2	15	16	43	.1	6	4	244	4.44	7	5	ND	1	11	1	2	2	99	.10	.071	6	15	.26	49	.19	2	2.17	.01	.06	1	14
2+00N 5+50W	2	25	10	61	.1	15	7	255	4.34	7	5	ND	4	15	2	2	2	97	.12	.067	9	23	.61	84	.26	3	3.13	.02	.12	1	5
2+00N 5+00W	2	32	26	55	.1	8	6	349	3.28	4	5	ND	1	12	1	2	2	68	.11	.070	7	14	.47	71	.17	2	3.13	.01	.07	1	19
2+00N 4+50W	1	33	24	90	.1	72	14	630	4.76	6	5	ND	4	111	1	2	2	84	.68	.348	31	47	1.70	588	.29	2	2.95	.02	.25	1	66
2+50S 1+50E	2	22	13	79	.1	19	9	412	3.88	8	5	ND	5	21	1	2	2	63	.15	.070	11	26	.68	95	.15	3	3.47	.01	.09	3	210
2+50S 3+50E	3	28	16	77	.2	15	8	418	4.09	10	5	ND	6	23	3	3	2	64	.14	.075	13	24	.73	72	.14	5	3.43	.01	.09	7	1855
2+50S 4+00E	2	19	33	104	.1	14	6	1343	3.05	12	5	ND	4	11	2	3	2	49	.09	.111	7	17	.33	96	.19	3	4.95	.01	.08	1	13
2+50S 4+50E	2	31	14	82	.1	16	8	611	3.55	9	5	ND	6	15	1	3	2	53	.09	.103	12	21	.55	82	.15	4	4.08	.01	.10	8	220
2+50S 5+00E	3	24	34	85	.1	15	11	675	3.89	10	5	ND	5	27	1	2	3	55	.15	.052	15	22	.66	75	.11	2	2.84	.01	.07	18	2625
2+50S 5+50E	2	25	37	90	.1	18	8	1877	3.30	7	5	ND	4	24	1	2	2	52	.18	.108	11	21	.55	104	.13	3	3.35	.01	.09	23	280
R-0	3	69	17	165	.1	42	17	1189	4.89	10	5	ND	4	56	1	2	2	83	.44	.327	13	52	1.16	454	.22	2	3.47	.01	.17	12	58
R-1	2	20	19	58	.5	12	7	181	2.97	7	5	ND	4	19	2	5	4	40	.19	.274	8	15	.25	136	.18	3	5.32	.02	.06	4	5
R-2	3	39	19	76	.3	23	10	291	3.78	8	5	ND	6	22	2	3	2	61	.16	.135	12	32	.56	157	.19	4	4.77	.02	.10	5	47
R-3	4	42	10	93	.2	32	13	501	4.06	6	5	ND	2	46	1	2	2	69	.45	.105	16	53	.80	185	.17	2	3.39	.02	.10	6	23
R-4	2	38	12	87	.6	23	13	336	3.97	7	5	ND	4	33	1	2	2	72	.30	.104	10	33	.69	183	.19	2	4.39	.02	.09	6	67
R-5	6	45	17	79	.2	22	14	374	4.41	6	5	ND	3	43	2	4	2	83	.39	.098	14	36	.79	114	.19	2	4.02	.02	.09	11	42
R-6	4	57	8	77	.2	27	14	365	4.43	6	5	ND	4	41	2	2	2	81	.35	.100	13	40	.95	121	.18	3	4.25	.01	.10	5	46
R-7	3	64	12	82	.4	29	14	340	4.51	8	5	ND	6	38	2	2	5	91	.24	.142	17	45	1.04	201	.18	4	4.35	.01	.12	9	28
R-8	4	47	12	78	.2	24	14	386	4.74	6	5	ND	4	37	1	2	2	88	.28	.077	14	41	.84	183	.20	7	3.55	.02	.09	7	44
R-9	5	70	15	129	.1	32	18	712	5.30	7	5	ND	3	48	1	2	2	101	.43	.082	11	54	1.28	184	.19	2	3.44	.02	.11	5	57
R-10	7	53	12	96	.1	31	16	577	4.79	5	5	ND	3	37	1	2	2	90	.36	.083	11	48	1.00	93	.18	2	3.64	.01	.10	9	330
R-11	4	64	15	85	.1	29	14	327	4.31	9	5	ND	4	32	1	2	2	78	.26	.123	14	41	.92	106	.17	2	4.33	.01	.11	9	560
R-12	6	58	13	111	.5	25	15	683	4.51	8	5	ND	4	34	3	3	2	80	.29	.076	16	36	.79	102	.19	5	4.29	.01	.12	11	31
R-13	5	65	12	95	.4	27	16	374	4.55	16	5	ND	5	34	2	4	2	85	.32	.107	15	43	.91	96	.19	6	5.05	.01	.12	6	23
R-14	6	64	12	91	.2	26	17	425	4.65	9	5	ND	4	34	2	2	2	89	.32	.106	14	41	.97	107	.19	2	4.90	.01	.12	4	46
R-15	5	57	4	86	.1	24	15	471	4.54	7	5	ND	4	26	1	2	2	87	.21	.100	10	38	.89	117	.21	2	4.85	.02	.10	4	41
R-16	3	59	12	93	.2	25	14	477	4.24	9	5	ND	5	29	1	2	2	78	.24	.108	14	39	.80	132	.20	3	4.93	.01	.10	3	39
R-17	2	51	13	82	.1	24	14	337	4.59	10	5	ND	5	27	1	2	2	86	.21	.175	10	39	.79	107	.18	3	4.66	.01	.09	4	14
R-18	3	67	10	71	.3	28	15	399	4.20	10	5	ND	4	38	4	2	2	80	.31	.106	14	40	.89	107	.18	5	4.84	.01	.13	5	260
STD C/AU-S	19	61	41	133	6.9	72	30	1119	4.17	42	19	8	40	49	17	17	20	61	.51	.092	42	61	.91	181	.07	32	2.06	.06	.14	12	49

ACME ANALYTICAL LABORATORIES LTD. 852 E. HA NGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 15 1988 DATE REPORT MAILED: July 19/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

HIAWATHA RESOURCES LTD. File # 88-2720 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
1+00S 7+50W	3	28	15	70	.1	15	10	628	4.74	2	5	ND	3	34	1	2	2	91	.18	.168	7	33	.81	67	.21	2	3.52	.01	.09	2	43
1+00S 7+00W	9	75	21	94	.1	26	22	603	5.62	2	5	ND	4	49	1	2	2	124	.31	.116	9	33	1.46	296	.26	5	4.63	.02	.16	11	440
1+00S 6+50W	5	67	23	100	.5	27	15	585	5.26	2	5	ND	5	48	1	2	2	92	.22	.137	12	31	1.20	318	.26	2	5.14	.01	.15	10	75
1+00S 6+00W	2	45	15	101	.2	52	16	653	5.30	2	5	ND	5	65	1	2	2	90	.33	.313	17	55	1.54	351	.25	5	3.77	.01	.18	2	31
1+00S 5+50W	3	44	20	80	.1	18	13	490	4.79	2	5	ND	3	34	1	2	3	88	.30	.118	9	24	.86	106	.19	2	3.96	.01	.09	10	49
1+00S 5+00W	2	34	24	79	.1	13	12	703	4.41	2	5	ND	3	29	1	2	2	84	.26	.112	9	20	.76	80	.17	4	3.49	.01	.09	7	96
1+00S 4+50W	2	32	23	78	.1	13	11	444	4.19	2	5	ND	3	20	1	2	2	73	.16	.125	7	18	.60	88	.19	3	5.16	.01	.08	6	28
1+00S 4+00W	5	53	21	95	.1	26	14	881	4.11	5	5	ND	2	35	1	2	2	73	.20	.113	14	31	1.04	151	.18	8	4.07	.01	.13	10	46
1+00S 3+50W	7	39	17	108	.1	31	13	1158	4.18	2	5	ND	2	37	1	2	2	71	.33	.130	18	32	1.00	171	.22	5	3.45	.01	.13	3	34
1+00S 3+00W	3	42	18	85	.5	15	9	444	4.29	3	5	ND	3	23	2	3	2	87	.21	.067	7	27	.75	84	.20	10	3.63	.01	.10	5	36
1+00S 2+50W	3	66	17	76	.4	13	11	563	3.96	2	5	ND	4	30	1	2	2	72	.30	.077	10	23	.75	74	.16	6	3.35	.01	.09	6	110
1+00S 2+00W	3	61	22	82	.2	15	11	517	4.16	2	5	ND	4	29	1	2	2	69	.27	.200	9	26	.80	97	.14	9	3.38	.01	.10	5	82
1+00S 1+50W	4	31	21	96	.2	20	11	422	4.99	2	5	ND	3	37	1	2	2	91	.25	.082	15	26	.93	161	.22	8	2.65	.01	.12	2	105
1+00S 1+00W	2	58	26	86	.4	36	13	384	4.42	2	5	ND	6	46	1	2	2	74	.32	.182	19	47	1.40	237	.22	15	3.48	.01	.19	3	128
1+00S 0+50W	1	44	25	116	.1	101	24	1502	5.78	2	5	ND	8	156	2	2	2	94	.91	.419	52	53	2.68	1156	.35	20	3.31	.03	.33	1	51
1+00S 0+00W	3	46	19	119	.2	43	12	548	5.45	19	5	ND	4	35	2	2	4	89	.30	.212	15	49	1.37	152	.20	6	3.20	.01	.17	2	44
1+00S 0+50E	2	25	48	143	.1	18	10	1775	3.83	8	5	ND	2	47	2	2	2	62	.50	.104	21	25	.89	230	.12	11	2.78	.01	.11	1	111
1+00S 1+00E	5	24	32	149	.2	22	11	3185	3.79	3	5	ND	1	51	2	2	3	63	.62	.089	40	31	.95	237	.13	14	2.89	.02	.14	1	54
1+00S 1+50E	3	24	29	137	.3	20	10	2684	3.96	7	5	ND	2	47	1	3	2	64	.53	.077	25	36	.89	105	.15	5	3.02	.02	.13	3	240
1+00S 2+00E	3	28	22	108	.2	21	12	2363	4.14	9	5	ND	2	48	2	2	3	69	.49	.078	18	30	.92	112	.14	9	2.64	.02	.11	4	185
1+00S 2+50E	2	19	24	94	.3	13	6	788	3.52	7	5	ND	3	14	1	6	2	54	.10	.102	9	19	.43	76	.17	8	4.10	.01	.09	5	125
1+00S 3+00E	2	21	24	92	.3	12	7	735	3.53	2	5	ND	3	13	1	3	2	54	.08	.109	10	21	.46	78	.17	4	4.71	.01	.09	3	17
1+00S 3+50E	2	16	29	91	.2	11	6	1003	3.31	5	5	ND	3	12	1	2	2	51	.09	.074	8	17	.31	82	.18	3	3.92	.01	.07	3	18
1+00S 4+00E	2	35	35	111	.1	20	9	879	3.86	5	5	ND	4	22	1	2	10	61	.13	.122	12	28	.72	116	.14	8	3.38	.01	.11	5	123
2+50S 7+50W	8	76	18	125	.2	48	19	761	5.41	2	5	ND	3	50	1	2	2	94	.22	.143	9	90	2.15	285	.24	10	5.15	.01	.20	11	35
2+50S 7+00W	11	60	22	97	.6	21	17	587	5.29	2	7	ND	4	41	1	2	2	89	.29	.130	10	37	1.03	102	.17	10	4.37	.01	.12	14	95
2+50S 6+50W	3	56	18	90	.3	26	16	645	4.80	2	5	ND	4	56	1	2	2	91	.34	.212	17	44	1.12	146	.18	13	4.09	.01	.12	4	131
2+50S 6+00W	2	59	27	87	.5	23	16	668	5.36	2	5	ND	5	55	2	2	2	80	.33	.154	24	43	1.11	114	.18	8	5.44	.01	.11	7	93
2+50S 5+50W	5	70	19	59	.3	25	21	1319	5.08	3	5	ND	2	66	1	2	2	95	.44	.197	17	32	1.20	266	.17	5	3.59	.01	.15	5	83
2+50S 5+00W	4	50	16	98	.3	23	16	645	4.69	2	5	ND	4	46	1	2	2	81	.44	.151	12	29	.89	145	.19	11	3.97	.01	.11	8	62
2+50S 4+50W	18	110	15	86	.4	17	22	922	5.09	3	5	ND	2	49	1	2	2	81	.45	.130	11	24	.97	125	.17	14	4.24	.01	.11	26	146
2+50S 4+00W	7	73	18	94	.2	17	17	1152	4.74	5	5	ND	2	45	1	2	2	85	.36	.227	14	24	1.05	129	.16	9	4.10	.01	.13	11	86
2+50S 3+50W	3	97	23	102	.5	22	20	759	5.56	2	5	ND	4	49	1	2	2	92	.33	.103	15	31	1.35	161	.21	9	5.38	.01	.15	12	260
2+50S 3+00W	3	77	15	87	.2	35	19	646	5.26	2	5	ND	6	65	1	2	2	100	.45	.184	21	39	1.57	365	.27	5	4.26	.01	.22	7	110
2+50S 2+50W	2	56	13	83	.2	20	16	461	4.61	3	5	ND	4	38	1	2	2	84	.29	.151	10	26	1.10	120	.18	8	4.40	.01	.12	5	125
2+50S 2+00W	5	39	22	38	.5	18	12	650	4.67	2	7	ND	4	36	1	2	2	99	.53	.089	16	25	.87	105	.22	16	3.58	.02	.10	2	86
2+50S 1+50W	5	66	29	109	.2	19	14	927	4.75	2	5	ND	5	25	2	2	2	73	.23	.280	11	26	.95	141	.17	7	6.25	.01	.16	12	28
STD C/AU-S	18	58	41	131	7.1	68	28	1030	3.84	36	22	7	37	48	17	17	18	55	.45	.083	38	52	.38	171	.06	38	1.84	.06	.14	21	46

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
2+50S 1+00W	4	54	18	96	.3	27	14	633	5.01	4	5	ND	3	31	1	2	2	85	.27	.146	13	33	1.08	164	.18	9	3.86	.01	.15	4	119
2+50S 0+50W	1	45	23	104	.4	88	19	701	5.65	2	5	ND	3	169	2	2	2	83	.88	.631	49	76	2.39	815	.31	10	3.83	.02	.34	2	65
2+50S 0+00W	2	25	18	77	.3	25	9	650	4.14	2	5	ND	4	29	1	2	2	60	.23	.202	14	35	.93	117	.14	6	3.29	.01	.13	6	91
2+50S 0+50E	1	21	21	82	.3	18	8	355	3.98	7	5	ND	4	16	1	5	2	54	.13	.274	11	25	.54	98	.17	7	4.34	.01	.10	6	59
2+50S 1+00E	3	22	23	102	.5	20	11	1240	5.04	3	6	ND	6	42	1	2	2	74	.45	.063	27	33	1.26	100	.16	12	3.94	.01	.15	5	142
2+50S 1+50E	2	21	19	84	.6	18	9	551	3.35	2	8	3	6	19	1	2	2	59	.14	.062	13	25	.69	89	.16	13	4.07	.01	.10	4	1090
2+50S 2+00E	2	24	23	84	.6	18	8	649	3.70	3	5	ND	6	15	1	2	2	53	.10	.115	12	25	.59	81	.17	12	4.65	.01	.10	3	48
2+50S 3+00E	1	18	22	85	.2	12	6	1106	3.19	2	5	ND	5	10	1	2	2	48	.07	.080	9	14	.29	85	.19	11	5.05	.01	.07	2	40
2+50S 3+50E	1	18	13	72	.3	13	7	677	3.40	4	6	ND	5	19	1	2	2	55	.13	.066	12	18	.57	64	.14	6	3.18	.01	.08	4	420
2+50S 4+00E	1	18	21	99	.3	13	6	1679	3.17	4	5	ND	3	10	1	2	2	48	.03	.112	8	17	.38	101	.18	14	4.10	.01	.07	1	11
2+50S 4+50E	2	26	25	79	.1	14	8	579	3.53	4	5	ND	4	14	1	2	2	68	.09	.125	11	21	.56	70	.14	5	3.55	.01	.09	9	107
2+50S 5+00E	2	27	22	70	.4	15	11	389	3.90	2	5	ND	7	10	1	2	4	52	.15	.050	17	23	.73	86	.12	10	3.38	.01	.08	24	960
2+50S 5+50E	1	29	29	79	.2	17	9	1251	3.51	3	5	ND	3	24	1	2	3	52	.18	.087	12	22	.63	86	.12	8	3.26	.01	.09	19	630
2+50S 6+00E	1	55	27	112	.3	171	32	1487	6.64	2	5	ND	6	238	5	2	2	104	1.36	.677	70	70	4.10	2154	.40	9	4.03	.03	1.53	1	23
2+50S 6+50E	22	99	51	152	.8	22	7	905	10.43	50	5	ND	3	39	2	3	2	91	.10	.198	8	36	.93	93	.10	14	2.98	.01	.19	5	19
4+00S 4+50W	7	75	29	127	.5	58	23	1446	6.16	3	5	ND	4	98	1	2	2	96	.67	.259	24	55	1.97	427	.26	10	4.04	.01	.22	30	51
4+00S 4+00W	6	73	23	107	.4	18	16	524	4.78	5	5	ND	2	59	1	2	2	80	.49	.118	7	27	1.02	86	.16	5	6.63	.01	.12	116	119
4+00S 3+50W	7	107	25	128	.4	25	23	1857	5.66	4	5	ND	2	52	2	2	2	91	.32	.147	11	35	1.27	99	.16	12	5.01	.01	.13	108	45
4+00S 3+00W	5	78	21	124	.4	19	15	686	4.46	8	5	ND	3	24	2	5	2	67	.21	.133	9	23	.69	108	.20	14	5.04	.01	.11	53	10
4+00S 2+50W	3	66	18	99	.3	42	21	672	5.72	5	5	ND	4	73	1	3	2	105	.56	.248	21	44	1.56	332	.25	15	3.93	.01	.17	8	41
4+00S 2+00W	3	54	23	123	.3	91	18	1108	5.43	4	5	ND	3	57	1	2	2	86	.43	.271	14	43	1.40	300	.26	9	3.32	.01	.18	16	77
4+00S 1+50W	33	138	29	229	.9	80	12	620	6.98	53	5	ND	3	45	4	2	2	78	.36	.375	18	39	1.22	261	.16	8	6.24	.01	.21	17	52
4+00S 1+00W	8	78	25	144	.5	41	17	682	5.04	5	5	ND	5	35	2	2	3	89	.25	.071	16	41	1.29	257	.23	9	4.10	.01	.20	29	93
4+00S 0+50W	4	78	24	100	.3	41	14	523	4.53	4	5	ND	6	47	1	2	2	79	.31	.202	18	40	1.34	311	.21	13	3.71	.01	.21	16	67
4+00S 0+00W	3	25	17	88	.1	14	10	768	3.92	4	5	ND	4	20	1	2	2	63	.18	.146	10	22	.55	77	.15	6	3.50	.01	.09	3	650
4+00S 0+50E	4	22	21	125	.1	18	10	517	3.54	6	5	ND	4	20	1	2	2	50	.16	.106	9	21	.52	89	.16	3	4.28	.01	.10	9	51
4+00S 1+00E	6	66	17	120	.2	13	10	1241	3.30	4	5	ND	3	21	1	2	2	50	.15	.102	9	16	.50	131	.19	6	4.53	.02	.07	44	21
4+00S 1+50E	4	79	17	114	.1	20	12	748	4.30	7	5	ND	3	20	1	2	2	74	.14	.086	9	30	.80	80	.18	7	3.91	.01	.15	61	62
4+00S 2+00E	3	38	27	100	.3	20	11	625	3.90	9	5	ND	5	23	1	2	2	58	.15	.122	11	27	.68	96	.17	4	4.39	.01	.12	52	88
4+00S 2+50E	2	16	25	94	.1	12	8	2545	3.58	5	5	ND	2	24	1	2	2	51	.21	.074	10	18	.58	88	.11	3	2.29	.01	.09	37	310
4+00S 3+00E	2	22	25	76	.4	13	7	591	3.09	6	5	ND	4	13	1	2	2	46	.10	.151	8	15	.34	77	.20	8	5.61	.02	.06	6	39
4+00S 3+50E	3	33	32	103	.2	19	9	540	3.88	5	5	ND	8	15	2	2	2	58	.10	.125	11	25	.68	83	.19	8	5.39	.01	.12	31	157
4+00S 4+00E	3	32	28	98	.1	20	11	788	4.07	6	5	ND	3	21	2	2	2	61	.19	.119	14	27	.78	80	.15	9	3.97	.01	.12	16	105
4+00S 4+50E	2	20	31	105	.2	12	10	2473	4.06	4	5	ND	4	41	2	2	2	62	.23	.073	12	21	.69	92	.12	6	2.64	.01	.10	56	380
4+00S 5+00E	2	32	31	118	.3	26	9	569	3.99	5	5	ND	4	18	1	2	2	68	.15	.076	9	26	.63	102	.21	4	3.83	.01	.10	7	83
4+00S 5+50E	1	34	38	106	.1	38	14	1427	3.30	4	5	ND	3	49	1	2	3	60	.32	.113	15	35	1.12	235	.17	3	2.73	.01	.14	3	64
4+00S 6+00E	4	99	34	156	.1	135	30	1281	6.39	7	5	ND	3	122	2	2	3	96	.91	.372	34	74	3.10	1008	.32	4	3.80	.02	1.03	1	42
STD C/AU-S	17	57	39	122	7.2	67	28	1106	4.04	39	18	8	36	45	17	17	18	56	.47	.087	37	56	.92	168	.06	34	2.02	.06	.14	11	52

F WATHA RESOURCES FILE # 88-3236

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Bi PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
R-19	3	64	12	83	.5	36	16	684	4.65	10	5	ND	5	36	3	4	3	88	.27	.084	13	56	1.04	120	.21	5	3.92	.01	.12	9	18
R-19A	3	106	10	67	.2	38	18	589	4.55	8	5	ND	2	66	1	2	2	95	.58	.122	14	56	1.27	377	.19	3	3.79	.02	.24	11	12
R-20	4	71	11	93	.4	34	18	665	4.86	7	5	ND	2	58	1	2	2	96	.43	.107	11	50	1.02	167	.17	2	3.28	.01	.16	10	86

TRIPLE P RESOURCES FILE # 87-592[illegible]

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
00N+125W	3	58	15	78	.4	13	9	499	3.47	4	5	ND	3	23	1	2	2	48	.13	.094	10	18	.53	84	.12	5	3.24	.02	.08	2
00N+100W	2	33	18	58	.1	11	6	436	3.07	11	5	ND	4	15	1	2	2	40	.13	.214	5	14	.23	76	.16	9	5.52	.02	.05	1
00N+75W	2	30	20	82	.1	29	10	454	3.80	10	5	ND	5	20	1	2	2	55	.14	.131	11	31	.74	144	.20	2	4.04	.02	.09	2
00N+50W	2	21	19	66	.2	19	7	365	3.59	4	5	ND	4	19	1	2	2	50	.14	.188	10	24	.53	128	.18	6	2.93	.02	.07	1
00N+25W	4	49	19	100	.2	45	15	1082	4.76	9	5	ND	3	64	1	2	4	75	.51	.130	22	47	1.48	297	.20	3	3.36	.02	.15	1
00N+00E	6	31	27	81	.3	18	11	1306	3.82	10	5	ND	1	49	1	2	2	62	.53	.081	29	29	.85	107	.11	8	2.08	.02	.10	1
00N+25E	4	32	11	98	.1	24	10	581	4.14	7	5	ND	3	27	1	2	2	67	.22	.091	13	29	.77	132	.17	4	2.99	.02	.10	1
00N+50E	4	27	21	81	.2	21	10	690	3.91	6	5	ND	4	23	1	2	3	62	.19	.094	16	28	.64	93	.17	8	3.52	.02	.10	2
00N+75E	4	32	15	86	.2	22	12	1194	3.91	6	5	ND	2	31	1	2	3	66	.28	.077	25	31	.84	125	.16	12	2.43	.02	.09	1
00N+100E	3	30	23	91	.1	20	12	1224	4.04	7	5	ND	3	25	1	2	2	68	.20	.075	16	28	.75	105	.17	6	2.75	.02	.10	1
00N+125E	4	42	16	86	.2	25	11	473	3.91	12	5	ND	4	22	1	3	2	64	.17	.096	13	30	.82	95	.16	10	3.58	.02	.10	2
00N+150E	4	32	40	82	.1	20	11	1111	3.55	10	5	ND	1	28	1	2	2	59	.24	.075	14	25	.71	101	.14	4	2.49	.02	.10	1
00N+175E	5	37	24	91	.1	21	10	656	4.03	9	5	ND	2	33	1	2	3	68	.28	.068	14	30	.86	98	.15	7	2.61	.02	.10	1
STD C	19	58	44	132	7.3	68	29	1126	4.14	41	17	7	36	47	18	18	22	56	.46	.089	38	59	.88	179	.07	36	1.80	.08	.14	11

ME ANALYTICAL LABORATORIES LTD. 85 HASTINGS S VANCOUVER B.C. V6 R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

File #87-5920 R.

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-6 SOIL P7 SAND

DATE RECEIVED: FEB 26 1988 DATE REPORT MAILED: Mar 7/88 ASSAYER. C. Leong ..D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

TRIPLE P RESOURCES File # 87-5920R Page 3

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
250N+250W	2	26	34	80	.2	20	9	1612	3.51	3	5	ND	1	31	1	2	2	63	.17	.105	17	25	.61	127	.15	4	2.27	.02	.08	1
250N+225W	2	18	26	55	.2	11	8	287	3.89	6	5	ND	1	16	1	2	3	78	.11	.064	9	19	.42	53	.18	2	1.81	.01	.06	1
250N+200W	1	17	39	76	.5	20	8	701	2.77	5	5	ND	1	17	1	2	2	52	.09	.072	15	19	.43	177	.18	2	2.03	.02	.09	1
250N+175W	1	13	43	67	.1	9	7	1189	2.83	4	5	ND	1	17	1	2	2	53	.12	.040	9	14	.24	108	.14	2	1.28	.02	.09	1
250N+150W	1	24	25	86	.2	51	14	1133	4.03	2	5	ND	3	44	1	2	2	65	.30	.181	18	36	1.18	293	.22	2	3.13	.03	.14	1
250N+125W	2	32	38	65	.4	18	13	859	3.25	7	5	ND	1	18	1	2	2	51	.13	.114	18	18	.44	116	.14	4	2.53	.03	.09	1
250N+100W	2	35	30	94	.3	34	16	1486	3.98	8	5	ND	2	37	1	2	2	67	.24	.104	20	34	.93	224	.16	2	2.78	.02	.12	1
250N+75W	1	22	62	97	.2	15	10	2627	3.17	10	5	ND	1	17	1	2	4	55	.12	.064	8	17	.37	156	.14	2	1.62	.02	.09	1
250N+50W	2	29	34	104	.2	19	12	2111	3.81	6	5	ND	1	39	1	2	2	56	.22	.140	12	22	.55	171	.14	4	2.19	.03	.11	1
250N+25W	4	27	95	141	.2	20	13	2932	3.75	18	5	ND	1	28	2	2	3	58	.30	.111	16	24	.71	155	.14	3	2.33	.03	.12	1
250N+00E	3	32	33	91	.4	21	11	612	4.11	7	5	ND	3	21	1	2	2	74	.17	.087	10	29	.73	106	.18	8	2.93	.03	.09	1
250N+25E	3	33	21	103	.3	21	10	551	4.42	10	5	ND	4	19	1	2	2	80	.14	.082	9	30	.71	114	.19	2	2.82	.02	.09	1
250N+50E	6	42	22	98	.4	25	12	581	4.20	7	5	ND	4	18	1	2	2	69	.14	.069	11	30	.83	114	.21	2	3.08	.02	.11	1
250N+75E	2	34	20	78	.4	32	14	593	4.28	7	5	ND	4	24	1	2	2	66	.19	.111	13	34	.97	163	.23	2	2.72	.02	.10	1
250N+100E	1	22	21	49	.8	7	6	196	3.39	2	5	ND	3	8	1	2	2	44	.05	.081	6	14	.21	40	.14	2	4.50	.02	.04	1
250N+125E	1	54	42	63	1.0	7	6	308	3.51	5	5	ND	3	12	1	2	2	44	.08	.073	7	14	.34	44	.12	2	3.32	.02	.06	1
250N+150E	1	13	21	28	.7	3	3	101	1.32	2	5	ND	1	8	1	2	2	29	.06	.024	6	6	.10	39	.11	2	1.39	.01	.04	1
250N+175E	2	27	34	54	1.1	9	6	277	3.25	5	5	ND	2	13	1	2	2	60	.10	.080	6	19	.26	45	.15	4	3.22	.02	.06	1
200N+250W	3	36	17	87	.5	14	9	830	3.66	8	5	ND	2	22	1	2	2	64	.13	.085	11	20	.46	80	.14	3	3.20	.02	.08	1
200N+225W	2	17	22	56	.3	10	7	292	3.56	6	5	ND	2	12	1	2	2	61	.09	.055	9	16	.29	59	.18	2	1.96	.02	.07	1
200N+200W	3	20	25	61	.5	12	8	520	3.18	6	5	ND	1	13	1	2	2	49	.09	.072	10	16	.31	75	.14	2	2.62	.02	.08	1
STD C	19	58	38	132	7.5	72	31	1126	4.21	41	23	7	39	48	18	18	22	59	.50	.082	40	59	.88	182	.07	33	1.84	.08	.14	10

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
200N+175W	2	18	12	67	.1	12	7	1243	3.08	5	5	ND	2	17	1	2	2	48	.10	.078	9	14	.31	71	.16	3	3.15	.02	.07	1
200N+150W	1	21	67	100	.1	12	6	3025	2.68	12	5	ND	1	21	1	2	2	47	.14	.071	9	15	.30	115	.12	5	1.53	.02	.10	1
200N+125W	1	33	14	89	.1	45	15	802	4.19	3	5	ND	3	60	1	2	2	74	.47	.140	26	39	1.21	251	.24	5	2.83	.03	.14	1
200N+100W	2	43	31	89	.1	44	17	1784	4.23	8	5	ND	1	66	1	2	2	77	.53	.161	30	38	1.30	330	.20	4	2.68	.03	.16	1
200N+75W	3	37	14	91	.1	28	13	1200	3.80	4	5	ND	2	25	1	2	2	65	.18	.112	17	29	.76	144	.19	2	3.12	.02	.12	1
200N+50W	3	39	8	75	.1	21	10	689	3.70	10	5	ND	2	26	1	2	2	67	.20	.084	11	26	.65	103	.17	3	2.55	.02	.09	1
200N+25W	14	46	91	269	1.4	27	14	918	4.91	12	5	ND	2	56	3	2	3	69	.55	.108	21	33	.88	197	.17	5	2.78	.03	.15	1
200N+25E	5	32	19	89	.1	19	10	575	4.29	6	5	ND	3	24	1	2	2	76	.22	.086	12	29	.68	105	.19	4	2.82	.02	.11	1
200N+50E	3	36	21	87	.2	19	9	794	3.72	4	5	ND	1	24	1	2	2	65	.18	.114	10	26	.61	120	.15	8	2.75	.03	.09	1
200N+75E	4	36	22	86	.4	18	10	528	3.82	9	5	ND	2	23	1	2	2	67	.18	.075	10	24	.67	81	.16	3	2.63	.02	.10	1
200N+100E	3	21	26	75	.1	18	9	966	3.65	5	5	ND	1	29	1	2	2	59	.21	.102	11	23	.60	117	.19	7	1.95	.02	.10	1
200N+125E	2	17	17	55	.3	10	5	429	3.32	6	5	ND	2	12	1	2	2	55	.08	.095	8	16	.27	69	.19	3	2.85	.02	.08	1
200N+150E	2	33	25	64	.2	9	6	312	2.99	5	5	ND	2	18	1	2	2	50	.11	.070	9	15	.35	40	.11	2	2.35	.02	.08	1
200N+175E	2	23	19	59	.7	7	5	519	3.47	5	5	ND	2	12	1	2	2	57	.08	.064	8	15	.29	41	.16	3	2.98	.02	.08	1
150N+250W	3	28	48	139	.1	30	14	2949	4.03	11	5	ND	2	49	1	2	2	68	.35	.146	20	39	1.04	311	.25	3	2.28	.03	.17	1
150N+225W	5	16	23	65	.2	11	8	515	3.37	4	5	ND	2	21	1	3	2	51	.20	.053	10	16	.30	92	.17	2	2.75	.02	.07	1
150N+200W	2	19	19	64	.3	9	7	2046	2.67	4	5	ND	1	15	1	2	2	45	.11	.050	10	14	.24	77	.13	3	1.66	.02	.07	1
150N+175W	2	19	47	94	.1	14	9	2274	3.28	4	5	ND	2	19	1	2	2	56	.14	.058	12	17	.39	96	.17	3	2.42	.02	.09	1
150N+150W	1	14	20	79	.1	12	7	1253	3.13	3	5	ND	2	14	1	2	2	48	.12	.089	7	13	.25	104	.19	2	3.97	.02	.07	1
150N+125W	1	32	30	94	.1	80	20	1607	4.60	8	5	ND	4	119	1	2	2	82	.66	.222	44	60	1.93	683	.29	2	2.87	.03	.28	1
150N+100W	2	30	21	96	.1	51	16	1620	4.07	3	5	ND	2	48	1	2	2	69	.40	.129	23	38	1.29	318	.26	9	2.90	.03	.17	1
150N+75W	1	24	11	81	.1	30	12	1421	4.10	4	5	ND	2	31	1	2	2	71	.28	.136	13	32	.79	136	.21	2	2.77	.03	.11	1
150N+50W	2	31	11	82	.1	24	11	889	4.03	8	5	ND	3	27	1	2	2	72	.20	.095	14	29	.72	122	.20	3	2.96	.02	.11	1
150N+25W	2	25	8	76	.1	23	10	836	3.91	4	5	ND	2	27	1	2	2	76	.19	.073	13	30	.71	123	.21	2	2.37	.02	.10	1
150N+00E	5	28	20	98	.1	19	9	617	3.82	9	5	ND	3	30	1	2	2	68	.28	.090	11	27	.67	130	.19	11	3.08	.03	.11	1
150N+25E	6	52	36	102	.1	28	14	749	4.32	12	5	ND	3	28	1	2	2	81	.23	.116	15	38	.96	115	.18	4	3.21	.03	.13	1
150N+50E	4	62	32	104	.3	32	15	799	4.44	16	5	ND	2	35	1	2	2	81	.31	.143	17	38	1.09	120	.14	14	3.84	.03	.15	1
150N+75E	4	36	23	90	.1	22	13	1266	4.09	9	5	ND	2	34	1	2	2	75	.28	.110	15	32	.89	122	.15	2	2.62	.03	.14	1
150N+100E	5	30	105	101	.3	18	11	2450	3.03	6	5	ND	1	81	2	2	2	54	.68	.098	37	26	.64	89	.09	5	2.08	.02	.14	1
150N+125E	5	27	30	85	.1	25	12	1548	3.83	8	5	ND	1	40	1	2	2	67	.34	.093	13	34	.93	137	.17	5	2.39	.03	.14	1
150N+150E	2	22	37	78	.1	22	10	901	3.39	2	5	ND	2	27	1	2	2	59	.20	.082	13	26	.65	124	.20	6	1.85	.03	.11	1
150N+175E	2	29	29	76	.3	11	7	466	4.02	2	5	ND	4	12	1	2	2	59	.08	.092	7	18	.34	56	.16	6	4.63	.02	.08	1
100N+250W	5	46	17	81	.1	24	23	1596	3.45	2	5	ND	1	28	1	2	2	61	.18	.126	32	32	.71	171	.16	4	3.15	.02	.14	1
100N+225W	9	41	18	105	.1	40	18	3009	3.89	5	5	ND	1	66	1	2	2	70	.51	.131	58	47	1.26	299	.24	8	3.10	.04	.17	1
100N+200W	5	29	19	78	.1	19	10	532	4.43	5	5	ND	3	20	1	2	2	74	.15	.104	13	26	.62	113	.22	5	2.75	.03	.10	1
100N+175W	2	25	22	73	.2	13	9	1129	3.26	3	5	ND	2	35	1	2	2	48	.17	.066	14	16	.61	87	.10	8	2.90	.02	.09	3
STD C	19	61	39	132	7.0	73	30	1177	4.13	44	18	8	39	51	19	18	20	61	.50	.087	42	61	.88	180	.07	33	1.90	.09	.15	11

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	%	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	%	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
100N+150W	2	16	15	64	.3	14	6	410	4.05	5	5	ND	4	18	1	2	2	63	.12	.116	9	20	.52	90	.19	2	3.34	.02	.10	1
100N+125W	2	18	12	62	.4	13	7	369	4.06	2	6	ND	5	23	1	2	2	58	.13	.185	10	17	.61	81	.13	3	3.90	.02	.10	1
100N+100W	2	20	16	80	.1	21	9	2005	4.46	8	5	ND	4	32	1	2	2	72	.26	.134	14	25	.84	176	.19	20	2.34	.03	.11	1
100N+75W	1	22	19	89	.2	36	11	962	4.98	4	6	ND	4	40	1	2	2	79	.27	.211	18	39	1.18	216	.23	2	2.85	.03	.15	1
100N+50W	2	30	13	85	.2	38	12	566	4.49	6	6	ND	6	32	1	2	2	73	.23	.176	18	38	1.14	208	.23	4	3.41	.02	.13	1
100N+25W	2	29	18	80	.4	22	9	474	4.70	8	6	ND	5	24	1	2	2	68	.20	.281	13	31	.79	107	.16	2	4.39	.02	.11	1
100N+00E	3	30	14	78	.4	19	8	436	4.28	10	5	ND	3	24	1	2	2	71	.17	.127	10	26	.72	93	.17	2	3.22	.02	.09	1
100N+25E	4	41	18	99	.4	25	10	461	4.71	12	5	ND	4	25	1	2	2	78	.20	.163	12	34	.97	122	.17	7	3.84	.02	.12	1
100N+50E	9	30	20	85	.4	23	12	1325	3.91	6	5	ND	2	42	1	2	2	75	.44	.081	19	38	1.04	85	.15	3	2.31	.03	.12	1
100N+75E	8	40	20	96	.3	29	13	1157	4.59	8	8	ND	3	36	1	2	2	84	.32	.112	21	38	1.20	136	.18	5	2.94	.03	.13	1
100N+100E	7	42	21	98	.4	28	14	1817	4.47	9	7	ND	2	43	1	2	2	82	.42	.101	20	39	1.15	136	.16	18	2.85	.03	.14	1
100N+125E	4	46	19	84	.5	23	13	648	4.26	8	5	ND	4	24	1	2	2	74	.20	.073	14	30	.92	94	.16	3	3.47	.02	.12	1
100N+150E	3	33	19	82	.4	18	8	458	4.09	3	5	ND	4	19	1	2	2	68	.12	.078	12	24	.68	87	.17	21	3.86	.02	.10	1
100N+175E	2	26	26	83	.4	21	9	744	3.93	4	5	ND	4	23	1	2	2	64	.17	.064	14	25	.78	109	.20	3	2.60	.02	.10	1
50N+250W	3	85	11	79	.2	16	9	463	3.98	6	5	ND	4	20	1	2	2	64	.15	.135	14	21	.76	75	.16	2	4.71	.02	.16	4
50N+225W	3	40	19	70	.4	14	11	703	3.50	7	5	ND	1	15	1	2	2	53	.10	.112	17	20	.45	93	.15	4	3.13	.02	.10	1
50N+200W	3	36	18	71	.2	14	10	646	3.60	2	5	ND	4	15	1	2	2	53	.09	.287	9	20	.39	87	.15	2	7.08	.03	.08	2
50N+175W	5	109	14	101	.4	31	16	619	5.46	6	6	ND	5	33	1	2	2	92	.24	.172	17	39	1.08	175	.19	2	4.52	.05	.15	6
50N+150W	3	31	16	69	.3	18	10	676	3.73	8	8	ND	5	31	1	2	2	56	.19	.104	16	20	.80	102	.14	2	3.25	.03	.12	1
50N+125W	3	31	12	62	.3	15	10	457	3.90	5	5	ND	5	34	1	2	2	60	.19	.060	12	20	.82	92	.14	6	2.94	.03	.11	2
50N+100W	2	20	11	56	.3	12	6	354	3.59	7	5	ND	3	24	1	2	2	57	.15	.058	12	18	.56	73	.15	3	3.15	.02	.07	1
50N+75W	2	22	15	77	.3	26	10	553	4.13	5	5	ND	4	25	1	2	2	65	.17	.092	15	30	.81	130	.21	3	3.66	.02	.10	1
50N+50W	1	13	17	71	.2	14	6	361	4.10	2	5	ND	4	19	1	2	2	64	.14	.074	11	21	.43	104	.24	2	2.71	.02	.09	1
50N+25W	2	28	15	86	.2	27	10	474	4.29	5	5	ND	5	27	1	2	2	70	.21	.109	14	30	.87	147	.21	2	3.47	.03	.11	1
50N+00E	2	28	13	76	.2	19	9	459	3.96	6	5	ND	4	22	1	2	2	63	.17	.146	11	25	.63	102	.18	2	4.10	.02	.09	1
50N+25E	5	40	73	129	.8	25	12	1710	3.95	10	12	ND	1	73	2	2	2	74	.86	.101	25	37	1.06	132	.13	7	2.69	.04	.13	1
50N+50E	9	40	19	100	.4	28	14	1044	4.51	8	7	ND	3	40	1	2	2	81	.39	.088	28	35	1.12	113	.18	2	3.14	.03	.13	1
50N+75E	5	32	17	100	.3	25	11	613	4.36	12	9	ND	4	28	1	2	2	74	.25	.143	15	32	.86	129	.19	3	3.71	.03	.12	1
50N+100E	3	36	17	83	.3	23	12	764	4.22	9	5	ND	3	25	1	2	2	72	.21	.095	18	30	.81	106	.18	2	3.88	.02	.11	1
50N+125E	4	39	19	91	.2	23	10	896	4.46	9	5	ND	3	26	1	2	2	80	.21	.072	14	31	.93	99	.18	3	3.13	.03	.12	2
50N+150E	3	41	20	86	.3	22	11	766	4.15	6	5	ND	3	26	1	2	2	73	.21	.085	13	29	.87	91	.15	3	3.08	.02	.12	1
50N+175E	4	33	22	96	.3	20	9	819	4.15	8	5	ND	4	21	1	2	2	69	.18	.064	13	27	.75	97	.19	3	3.69	.03	.11	1
00N+250W	3	63	15	80	.4	20	13	1224	4.34	5	5	ND	4	27	1	2	2	73	.20	.109	13	29	.87	130	.18	12	3.36	.03	.13	2
00N+225W	2	33	15	76	.2	14	9	527	4.31	5	5	ND	3	19	1	2	2	70	.13	.185	8	20	.54	83	.17	2	4.19	.02	.09	1
00N+200W	2	34	13	82	.2	15	10	387	4.42	2	5	ND	4	14	1	2	2	66	.10	.157	9	25	.55	79	.17	2	4.21	.02	.10	1
00N+175W	5	99	17	90	.7	21	16	630	6.05	7	5	ND	3	31	1	2	2	126	.29	.127	13	32	1.05	177	.18	7	3.19	.03	.19	3
00N+150W	3	44	16	76	.3	23	11	995	4.65	2	5	ND	4	28	1	2	2	83	.20	.116	15	32	.91	163	.19	9	2.38	.03	.13	4
STD C	19	57	36	132	7.4	71	30	1130	4.17	41	23	8	39	49	19	17	20	59	.49	.083	40	59	.97	179	.07	31	1.88	.06	.13	11

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716 DATE RECEIVED: NOV 26 1987
DATE REPORT MAILED: Dec. 2/87

GEOCHEMICAL ANALYSIS CERTIFICATE

- SAMPLE TYPE: P1-6 SOIL P7-SAND
AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

TRIPLE P RESOURCES File # 87-5920 Page 1

SAMPLE#	AU* ppb
600N+00E	65
600N+25E	11
600N+50E	5
600N+100E	76
550N+00E	8
550N+25E	4
550N+50E	5
550N+75E	8
550N+100E	3
500N+175W	29
500N+150W	6
500N+125W	10
500N+100W	3
500N+75W	14
500N+50W	11
500N+25W	19
500N+00E	13
500N+25E	7
500N+50E	27
500N+75E	3
500N+100E	43
500N+125E	22
500N+150E	68
500N+175E	13
450N+175W	21
450N+150W	44
450N+125W	5
450N+100W	24
450N+75W	210
450N+50W	6
450N+25W	7
450N+00E	1
450N+25E	1
450N+50E	1
450N+75E	2
450N+100E	1

SAMPLE#	AU* ppb
450N+125E	1
400N+175W	5
400N+150W	11
400N+125W	17
400N+100W	6
400N+75W	15
400N+50W	10
400N+25W	1
400N+00E	2
400N+25E	1
400N+50E	1
400N+75E	1
400N+100E	1
400N+125E	16
400N+150E	3
400N+175E	58
350N+200W	89
350N+175W	1
350N+150W	1
350N+125W	1
350N+100W	2
350N+75W	5
350N+50W	26
350N+25W	4
350N+00E	4
350N+25E	2
350N+50E	2
350N+75E	1
350N+100E	1
350N+125E	1
350N+150E	74
350N+175E	3
350N+200E	168
300N+250W	60
300N+225W	14
300N+200W	1

SAMPLE#	AU* ppb
300N+175W	20
300N+150W	3
300N+125W	1
300N+100W	14
300N+75W	3
300N+50W	19
300N+25W	1
300N+00E	1
300N+25E	10
300N+50E	6
300N+75E	4
300N+100E	1
300N+125E	1
300N+150E	2
Start 300N+175E	3
250N+250W	12
250N+225W	58
250N+200W	4
250N+175W	55
250N+150W	32
250N+125W	4
250N+100W	17
250N+75W	8
250N+50W	95
250N+25W	142
250N+00E	102
250N+25E	32
250N+50E	11
250N+75E	23
250N+100E	10
250N+125E	12
250N+150E	2
250N+175E	1
200N+250W	92
200N+225W	7
200N+200W	79

SAMPLE#	AU* ppb
200N+175W	45
200N+150W	14
200N+125W	25
200N+100W	14
200N+75W	31
200N+50W	17
200N+25W	1730
200N+25E	52
200N+50E	200
200N+75E	30
200N+100E	9
200N+125E	3
200N+150E	52
200N+175E	4
150N+250W	210
150N+225W	40
150N+200W	21
150N+175W	42
150N+150W	7
150N+125W	45
150N+100W	37
150N+75W	88
150N+50W	96
150N+25W	11
150N+00E	30
150N+25E	91
150N+50E	34
150N+75E	102
150N+100E	98
150N+125E	13
150N+150E	19
150N+175E	12
100N+250W	20
100N+225W	90
100N+200W	112
100N+175W	430

SAMPLE#	AU* ppb
100N+150W	31
100N+125W	72
100N+100W	84
100N+75W	128
100N+50W	130
100N+25W	20
100N+00E	93
100N+25E	122
100N+50E	62
100N+75E	49
100N+100E	190
100N+125E	63
100N+150E	12
100N+175E	29
50N+250W	59
50N+225W	12
50N+200W	11
50N+175W	77
50N+150W	115
50N+125W	137
50N+100W	240
50N+75W	176
50N+50W	23
50N+25W	99
50N+00E	21
50N+25E	27
50N+50E	30
50N+75E	25
50N+100E	27
50N+125E	39
50N+150E	36
50N+175E	60
00N+250W	111
00N+225W	27
00N+200W	79
00N+175W	55
00N+150W	79

SAMPLE#	AU* ppb
00N+125W	92
00N+100W	9
00N+75W	52
00N+50W	78
00N+25W	260
00N+00E	50
00N+25E	192
00N+50E	330
00N+75E	52
00N+100E	92
00N+125E	49
00N+150E	86
00N+175E	245

End

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL/ASSAY CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Rock Chips AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: OCT 27 1987 DATE REPORT MAILED: Oct 31/87 ASSAYER. D. Toye ..DEAN TOYE. CERTIFIED B.C. ASSAYER

TRIPLE P RESOURCES File # 87-5215

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB	CU %	PB %	ZN %	AG OZ/T	AU OZ/T
588	230	29	19	13	2.3	4	9	85	9.77	12	5	14	4	9	1	2	51	11	.07	.020	8	5	.11	28	.02	10	.30	.03	.09	1	26300	-	-	-	-	-
589	31	12	6	10	.6	2	4	80	4.70	8	5	ND	4	23	1	2	57	16	.07	.028	6	5	.18	40	.06	3	.63	.04	.16	2	5995	-	-	-	-	-
590	251	452	29	53	15.8	6	20	315	56.51	129	5	11	6	3	1	4	71	36	.01	.034	3	11	.04	11	.01	6	.29	.01	.03	1	16200	-	-	-	-	-
591	11	359	28	33	15.3	17	13	198	20.38	102	5	5	7	34	1	2	198	48	.10	.085	8	29	.38	61	.07	2	.58	.04	.20	14	10090	-	-	-	-	-
592	123	24	117	9	3.2	1	2	39	3.54	9	5	2	4	56	1	2	55	9	.01	.026	17	2	.02	67	.01	2	.27	.02	.15	12	5220	-	-	-	-	-
593	12	165	7	42	.5	17	10	330	4.17	5	5	ND	4	93	1	2	2	98	1.00	.084	10	31	.49	132	.25	6	1.36	.13	.21	21	119	-	-	-	-	-
594	1	701	32788	2715	177.5	8	55	42	9.17	18821	5	4	3	2	41	729	9	1	.01	.001	2	4	.01	3	.01	3	.05	.01	.02	4	-	.07	19.70	.31	5.20	.169
595	1	909	22024	81175	128.0	106	48	518	21.08	4457	5	ND	4	4	1021	966	66	4	.30	.003	3	1	.06	11	.01	2	.23	.01	.06	3	-	.01	12.84	10.96	4.11	.063
STD C/AU-R	20	62	41	133	7.5	71	29	1060	4.06	39	20	8	40	52	19	18	23	62	.50	.095	39	60	.90	179	.08	35	1.95	.06	.14	12	490	-	-	-	-	-

589 - 593 Luc Denny. Rozan property.
Samples taken by TH Heinrima. October 24th 1987.

594, 595. Not related to above. Coming from a totally different area

TH Heinrima

CTA
Member
Canadian Testing
Association

KAMLOOPS *RESEARCH & ASSAY* LABORATORY LTD.

912 - 1 LAVAL CRESCENT — KAMLOOPS, B.C.
V2C 5P5
PHONE: (604) 372-2784 — TELEX: 048-8320

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

CERTIFICATE OF ASSAY

TO P.J. Santos

626 - 9th Avenue

Castlegar, B.C. V1N 1M4

Certificate No. K 9041

Date August 2, 1988

PROJECT: ROZAN

I hereby certify that the following are the results of assays made by us upon the herein described ____ samples

Kral No.	Marked	Au	Ag							
		ozs/ton	ozs/ton							
1.	33596	L.001	L.01							
2.	33597	.012	L.01							
3.	58001 RZ-1	L.001	L.01							
4.	58002 RZ-2	L.001	L.01							
5.	58003 RZ-3	L.001	L.01							
6.	58004 RZ-4	L.001	L.01							
7.	58005 RZ-5	L.001	L.01							
8.	58006 RZ-6	L.001	L.01							
9.	58007 RZ-7	L.001	L.01							
10.	58008 RZ-8	L.001	L.01							
11.	58009 RZ-9	L.001	L.01							
12.	58010	L.001	L.01							
13.	58011	L.001	L.01							
14.	58012	L.001	L.01							

NOTE
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged

Registered Assayer, Province of British Columbia

CTA
Member
Canadian Testing
Association

KAMLOOPS *RESEARCH & ASSAY* LABORATORY LTD.

912 - 1 LAVAL CRESCENT — KAMLOOPS, B.C.
V2C 5P5
PHONE: (604) 372-2784 — TELEX: 048-8320

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

CERTIFICATE OF ASSAY

TO P.J. Santos

626 - 9th Avenue

Castlegar, B.C. V1N 1M4

Certificate No. K 9118

Date August 25, 1988

Project: Rozan

I hereby certify that the following are the results of assays made by us upon the herein described _____ samples

Kral No.	Marked	Au	Ag
		ozs/ton	ozs/ton
1.	58013	L.001	L.01
2.	58014	.001	L.01
3.	58015	L.001	L.01
4.	58016	L.001	L.01
5.	58017	L.001	L.01
6.	58018	.001	L.01
7.	58019	.420	.12
8.	58020	.247	L.01

L means "less than"

NOTE
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged

David A Smith

Registered Assayer, Province of British Columbia

KAMLOOPS
RESEARCH & ASSAY
LABORATORY LTD.

B.C. CERTIFIED ASSAYERS

912 - 1 LAVAL CRESCENT, KAMLOOPS, B.C. V2C 5P5 PHONE (604) 372-2784 FAX 372-1112

CTA

** ICP ANALYSIS **

To: P.J. Santos
626-9th Ave.
Castlegar, B.C.
V1N 1M4

Attn:

Number: G 2005

Date: Sept. 7, 1988

Proj.: Rozan

Element	Reported In	Sample No. 33596	Sample No. 33597	Sample No. 58001	Sample No. 58002
Al	percent	2.64	1.36	2.65	3.30
Ag	ppm	<0.2	0.2	<0.2	0.2
As	ppm	<5.	<5.	<5.	<5.
Ba	ppm	210.	60.	220.	170.
Be	ppm	<0.5	<0.5	<0.5	0.5
Bi	ppm	<2.	2.	<2.	<2.
Ca	percent	2.03	1.83	0.56	0.97
Cd	ppm	1.0	<0.5	0.5	0.5
Co	ppm	7.	3.	7.	7.
Cr	ppm	86.	76.	108.	103.
Cu	ppm	169.	10.	66.	38.
Fe	percent	5.16	2.19	3.72	3.14
Ga	ppm	<10.	<10.	<10.	10.
Hg	ppm	<1.	1.	<1.	<1.
K	percent	0.91	0.35	0.92	0.80
La	ppm	10.	30.	10.	10.
Mg	percent	1.88	0.93	1.41	1.37
Mn	ppm	678.	465.	285.	367.
Mo	ppm	11.	614.	10.	6.
Na	percent	0.11	0.16	0.21	0.35
Ni	ppm	18.	4.	24.	13.
P	ppm	1120.	1000.	660.	680.
Pb	ppm	<2.	10.	8.	6.
Sb	ppm	<5.	<5.	<5.	<5.
Sc	ppm	7.	2.	9.	9.
Sr	ppm	99.	68.	69.	140.
Ti	percent	0.17	0.01	0.20	0.23
Tl	ppm	<10.	<10.	<10.	<10.
U	ppm	<10.	<10.	<10.	<10.
V	ppm	150.	14.	148.	111.
W	ppm	<5.	<5.	<5.	<5.
Zn	ppm	162.	36.	100.	116.

Rd # 154.—
Sept 22/88
Ch 12 51

KAMLOOPS
RESEARCH & ASSAY
LABORATORY LTD.

B.C. CERTIFIED ASSAYERS

912 - 1 LAVAL CRESCENT, KAMLOOPS, B.C. V2C 5P5 PHONE (604) 372-2784 FAX 372-1112

** ICP ANALYSIS **

To: P.J. Santoa
626 - 9th Ave.
Castlegar, B.C.
V1N 1M4

Attn:

Number: G 2005

Date: Sept. 7, 1988

Proj.: Rozan

Element	Reported In	Sample No. 58003	Sample No. 58004	Sample No. 58005	Sample No. 85006
Al	percent	2.23	2.74	3.41	3.19
Ag	ppm	<0.2	<0.2	<0.2	<0.2
As	ppm	<5.	<5.	<5.	<5.
Ba	ppm	100.	220.	250.	250.
Be	ppm	<0.5	<0.5	<0.5	0.5
Bi	ppm	<2.	<2.	<2.	<2.
Ca	percent	0.35	0.54	0.85	0.63
Cd	ppm	0.5	<0.5	2.0	1.0
Co	ppm	5.	8.	7.	6.
Cr	ppm	88.	95.	109.	100.
Cu	ppm	58.	52.	69.	70.
Fe	percent	3.20	3.91	4.15	4.38
Ga	ppm	<10.	<10.	<10.	<10.
Hg	ppm	<1.	<1.	<1.	1.
K	percent	0.60	0.95	0.84	0.98
La	ppm	10.	10.	10.	10.
Mg	percent	1.27	1.43	1.60	1.70
Mn	ppm	300.	338.	385.	385.
Mo	ppm	15.	6.	5.	8.
Na	percent	0.12	0.21	0.29	0.21
Ni	ppm	10.	19.	21.	18.
P	ppm	640.	690.	790.	770.
Pb	ppm	<2.	<2.	<2.	4.
Sb	ppm	<5.	<5.	<5.	5.
Sc	ppm	7.	8.	9.	10.
Sr	ppm	64.	79.	115.	81.
Ti	percent	0.21	0.23	0.25	0.29
Tl	ppm	<10.	<10.	<10.	<10.
U	ppm	<10.	<10.	<10.	<10.
V	ppm	105.	120.	115.	168.
W	ppm	<5.	<5.	<5.	<5.
Zn	ppm	71.	85.	224.	100.

KAMLOOPS
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B.C. CERTIFIED ASSAYERS

912 - 1 LAVAL CRESCENT, KAMLOOPS, B.C. V2C 5P5 PHONE (604) 372-2784 FAX 372-1112

CTA

** ICP ANALYSIS **

To: P.J. Santos
626 - 9th Ave.
Castlegar, B.C.
V1N 1M4

Attn:

Number: G 2005

Date: Sept. 7, 1988

Proj.: Rozan

Element	Reported In	Sample No. 58007	Sample No. 58008	Sample No. 58009	Sample No. 85010
Al	percent	3.20	3.23	2.93	2.79
Ag	ppm	<0.2	<0.2	<0.2	0.2
As	ppm	35.	<5.	5.	<5.
Ba	ppm	260.	180.	110.	190.
Be	ppm	<0.5	0.5	0.5	<0.5
Bi	ppm	<2.	<2.	<2.	2.
Ca	percent	0.73	0.67	0.63	0.58
Cd	ppm	<0.5	1.5	<0.5	1.0
Co	ppm	8.	8.	7.	5.
Cr	ppm	92.	85.	76.	82.
Cu	ppm	50.	45.	69.	44.
Fe	percent	4.15	3.65	3.70	3.84
Ga	ppm	<10.	<10.	10.	<10.
Hg	ppm	<1.	2.	<1.	<1.
K	percent	0.94	0.66	0.29	0.46
La	ppm	10.	10.	10.	10.
Mg	percent	1.65	1.52	1.66	1.43
Mn	ppm	358.	391.	367.	298.
Mo	ppm	3.	3.	6.	5.
Na	percent	0.24	0.24	0.21	0.21
Ni	ppm	20.	15.	22.	12.
P	ppm	780.	610.	630.	680.
Pb	ppm	2.	2.	2.	<2.
Sb	ppm	<5.	<5.	<5.	<5.
Sc	ppm	10.	8.	10.	5.
Sr	ppm	90.	87.	80.	107.
Ti	percent	0.23	0.24	0.29	0.23
Tl	ppm	<10.	<10.	<10.	<10.
U	ppm	<10.	<10.	<10.	<10.
V	ppm	127.	102.	170.	135.
W	ppm	<5.	<5.	<5.	<5.
Zn	ppm	82.	126.	76.	104.

KAMLOOPS
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B.C. CERTIFIED ASSAYERS

912 - 1 LAVAL CRESCENT, KAMLOOPS, B.C. V2C 5P5 PHONE (604) 372-2784 FAX 372-1112

CTA

** ICP ANALYSIS **

To: P.J. Santos
626 - 9th Ave.
Castlegar, B.C.
VIN IM4

Attn:

Number: G 2005

Date: Sept. 7, 1988

Proj.: Rozan

Element	Reported In	Sample No. 58011	Sample No. 58012
Al	percent	2.81	2.01
Ag	ppm	<0.2	<0.2
As	ppm	<5.	10.
Ba	ppm	1790.	120.
Be	ppm	2.5	<0.5
Bi	ppm	<2.	<2.
Ca	percent	1.84	0.84
Cd	ppm	0.5	<.5
Co	ppm	27.	6.
Cr	ppm	134.	94.
Cu	ppm	86.	44.
Fe	percent	4.98	3.40
Ga	ppm	10.	<10.
Hg	ppm	<1.	<1.
K	percent	1.62	0.53
La	ppm	70.	10.
Mg	percent	3.68	0.65
Mn	ppm	834.	156.
Mo	ppm	<1.	5.
Na	percent	0.35	0.26
Ni	ppm	81.	3.
P	ppm	2670.	550.
Pb	ppm	12.	<2.
Sb	ppm	<5.	<5.
Sc	ppm	7.	4.
Sr	ppm	542.	81.
Ti	percent	0.13	0.22
Tl	ppm	<10.	<10.
U	ppm	<10.	<10.
V	ppm	110.	84.
W	ppm	<5.	<5.
Zn	ppm	82.	46.

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B.C. CERTIFIED ASSAYERS

912 - 1 LAVAL CRESCENT, KAMLOOPS, B.C. V2C 5P5 PHONE (604) 372-2784 FAX 372-1112

CTA

** ICP ANALYSIS **

To: P.J. Santos, P. Eng.
626 - 9th Avenue
Castlegar, B.C.
VIN IM4

Attn:

Number: K 9118

Date: Sept. 7, 1988

Proj.: Rozan

Element	Reported In	Sample No. 58013	Sample No. 58014	Sample No. 58015	Sample No. 58016
Al	percent	1.08	0.27	0.59	3.47
Ag	ppm	<.2	0.2	0.2	<.2
As	ppm	<5.	<5.	<5.	5.
Ba	ppm	40.	10.	30.	110.
Be	ppm	1.0	<0.5	0.5	1.0
Bi	ppm	<2.	<2.	2.	<2.
Ca	percent	0.88	0.04	0.06	1.36
Cd	ppm	<0.5	<0.5	<0.5	1.5
Co	ppm	8.	4.	5.	6.
Cr	ppm	74.	226.	243.	105.
Cu	ppm	171.	19.	33.	62.
Fe	percent	2.84	0.79	1.31	3.49
Ga	ppm	10.	<10.	<10.	10.
Hg	ppm	<1.	<1.	<1.	<1.
K	percent	0.13	0.04	0.10	0.67
La	ppm	10.	<10.	<10.	10.
Mg	percent	0.27	0.06	0.21	1.25
Mn	ppm	187.	49.	56.	362.
Mo	ppm	10.	4.	19.	18.
Na	percent	0.09	0.01	0.01	0.32
Ni	ppm	11.	4.	6.	21.
P	ppm	560.	120.	200.	730.
Pb	ppm	<2.	<2.	<2.	<2.
Sb	ppm	<5.	<5.	<5.	<5.
Sc	ppm	3.	<1.	1.	9.
Sr	ppm	70.	4.	9.	136.
Ti	percent	0.31	0.01	0.03	0.22
Tl	ppm	<10.	<10.	10.	<10.
U	ppm	<10.	<10.	<10.	<10.
V	ppm	84.	9.	19.	165.
W	ppm	<5.	<5.	<5.	<5.
Zn	ppm	34.	3.	8.	170.

KAMLOOPS
RESEARCH & ASSAY
LABORATORY LTD.

B.C. CERTIFIED ASSAYERS

912 - 1 LAVAL CRESCENT, KAMLOOPS, B.C. V2C 5P5 PHONE (604) 372-2784 FAX 372-1112

** ICP ANALYSIS **

To: P.J. Santos, P. Eng.
626 - 9th Avenue
Castlegar, B.C.
VIN IM4

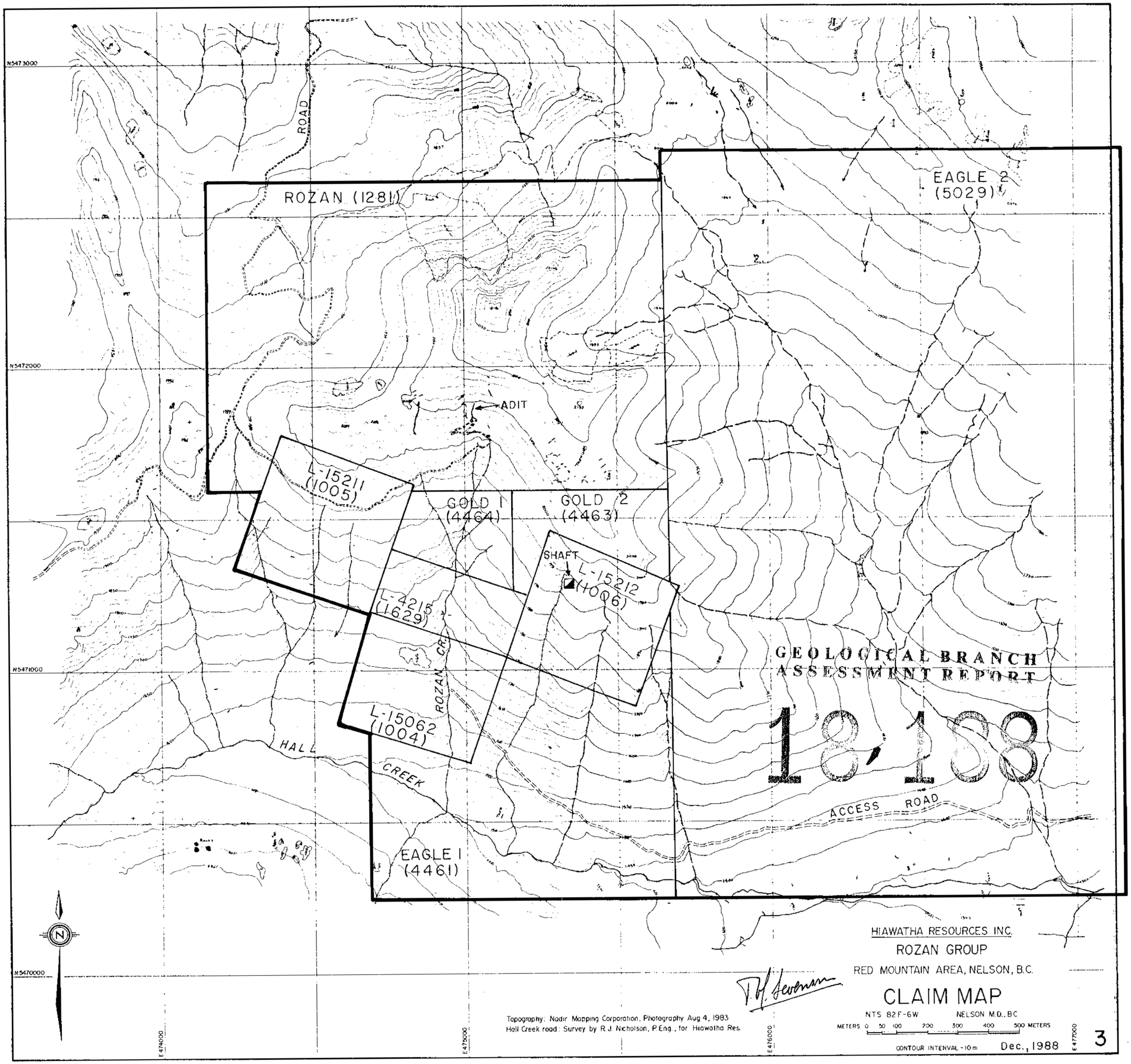
Attn:

Number: K 9118

Date: Sept. 7, 1988

Proj.: Kozan

Element	Reported In	Sample No. 58017	Sample No. 58018	Sample No. 58019	Sample No. 58020
Al	percent	4.73	0.68	0.61	0.59
Ag	ppm	<0.2	0.2	6.6	0.6
As	ppm	<5.	<5.	<5.	<5.
Ba	ppm	200.	80.	30.	30.
Be	ppm	2.	2.	1.	2.
Bi	ppm	<2.	2.	30.	20.
Ca	percent	1.89	0.03	0.02	0.02
Cd	ppm	<0.5	<0.5	<0.5	<0.5
Co	ppm	8.	<1.	<1.	<1.
Cr	ppm	90.	140.	122.	142.
Cu	ppm	42.	2.	<1.	2.
Fe	percent	3.35	3.59	4.12	3.81
Ga	ppm	10.	10.	<10.	<10.
Hg	ppm	<1.	<1.	<1.	<1.
K	percent	0.64	0.20	0.15	0.19
La	ppm	10.	<10.	10.	10.
Mg	percent	1.35	0.26	0.06	0.08
Mn	ppm	347.	147.	70.	114.
Mo	ppm	6.	8.	8.	9.
Na	percent	0.53	0.07	0.03	0.03
Ni	ppm	20.	5.	<1.	2.
P	ppm	540.	460.	400.	300.
Pb	ppm	<2.	<2.	14.	2.
Sb	ppm	<5.	<5.	<5.	<5.
Sc	ppm	7.	2.	1.	1.
Sr	ppm	201.	21.	11.	7.
Ti	percent	0.17	0.02	<0.01	<0.01
Tl	ppm	<10.	<10.	<10.	10.
U	ppm	<10.	<10.	<10.	<10.
V	ppm	104.	25.	11.	13.
W	ppm	5.	50.	860.	105.
Zn	ppm	80.	10.	4.	4.



HIAWATHA RESOURCES INC.

ROZAN GROUP

RED MOUNTAIN AREA, NELSON, B.C.

CLAIM MAP

NTS 82F-6W NELSON M.D., B.C.

METERS 0 50 100 200 300 400 500 METERS

CONTOUR INTERVAL - 10 m

Dec., 1988

Topography: Nadir Mapping Corporation, Photography Aug 4, 1983
Hall Creek road: Survey by R.J. Nicholson, P.Eng., for Hiawatha Res.

3

LEGEND

- L — Lamprophyre
- Gd — Nelson Intrusives (Granodiorite)
- AP — Silver King Porphyry (Andesite Porphyry)

Rossland Group

- MV — Meta-Volcanics (Green, recrystallized andesite)
- AuP — Augite Porphyry
- MS — Meta-Sediments (Black argillite, fine grained quartzite, tuffaceous sandstone)

- 70 — Dip and Strike of quartz veins and bedding
- 70 — Dip and Strike of joints
- 70 — Dip and Strike of dykes
- x AP — Andesite Porphyry Boulders
- x Gd — Granodiorite Boulders
- x AuP — Augite Porphyry Boulders
- x MV — Meta-Volcanic Boulders
- x MS — Meta-Sediment Boulders
- x Lamp — Lamprophyre Boulders
- Outline of Outcrop
- Geologic Contact
- U, D, 70 — Fault
- Qtz. — Quartz
- Lamp — Lamprophyre
- py — Pyrite
- po — Pyrrhotite
- Trench, Dump
- Portal
- Claim Post
- Shaft, Test Pit
- Trail
- 2.5N, 4W — Means 250 meters North, 400 meters West
- Rock Slide

Note: Grid lines laid out by compass and hipchain. Actual positions of lines 2.5N, 2N, 1.5N, 4S, 6S were verified. Elevation contours in meters.

0 100 200 Meters

0 200 400 600 Feet

GEOLOGICAL BRANCH
ASSESSMENT REPORT
18,188

HIAWATHA RESOURCES INC.

GEOLOGIC MAP OF ROZAN PROPERTY

ANGINEL RESOURCES LTD.

Drawn by:	Date	
P.J. Santos, P.Eng	Sept, 1988	PLATE NO. 5

ROZAN (1281)

EAGLE 2 (5029)

EAGLE 1 (4461)

GOLD 1 (4464)

GOLD 2 (4463)

L-15211 (1005)

L-15212 (1006)

L-4215 (1629)

L-15062 (1004)

ADIT

6N 5N 4N 3N 2N 1N 0 1S 2S 4S 6S 8S 10S

ROAD

ROZAN CR.

HALL CREEK

ACCESS ROAD

N5473000

N5472000

49° 24'

N5471000

N5470000

E 474000

E 475000

117° 20'

E 476000

E 477000

1900 2000 2100 2150 1700 1800 1600 1500 1400 1300

≥ 30 ppb Au & < 90 ppb Au

SURVEY AREAS WITH NO Au < 30 ppb

> 90 ppb Au

SHAFT

★ > 900 ppb Au

▲ 400 - 900 ppb Au

Au

0 100 200 300 400 500 600 700 800 900 1000 METRES

HIAWATHA RESOURCES INC.

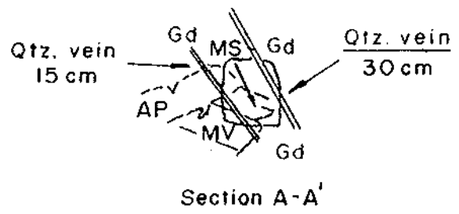
ROZAN GROUP

RED MOUNTAIN AREA, NELSON, B.C.

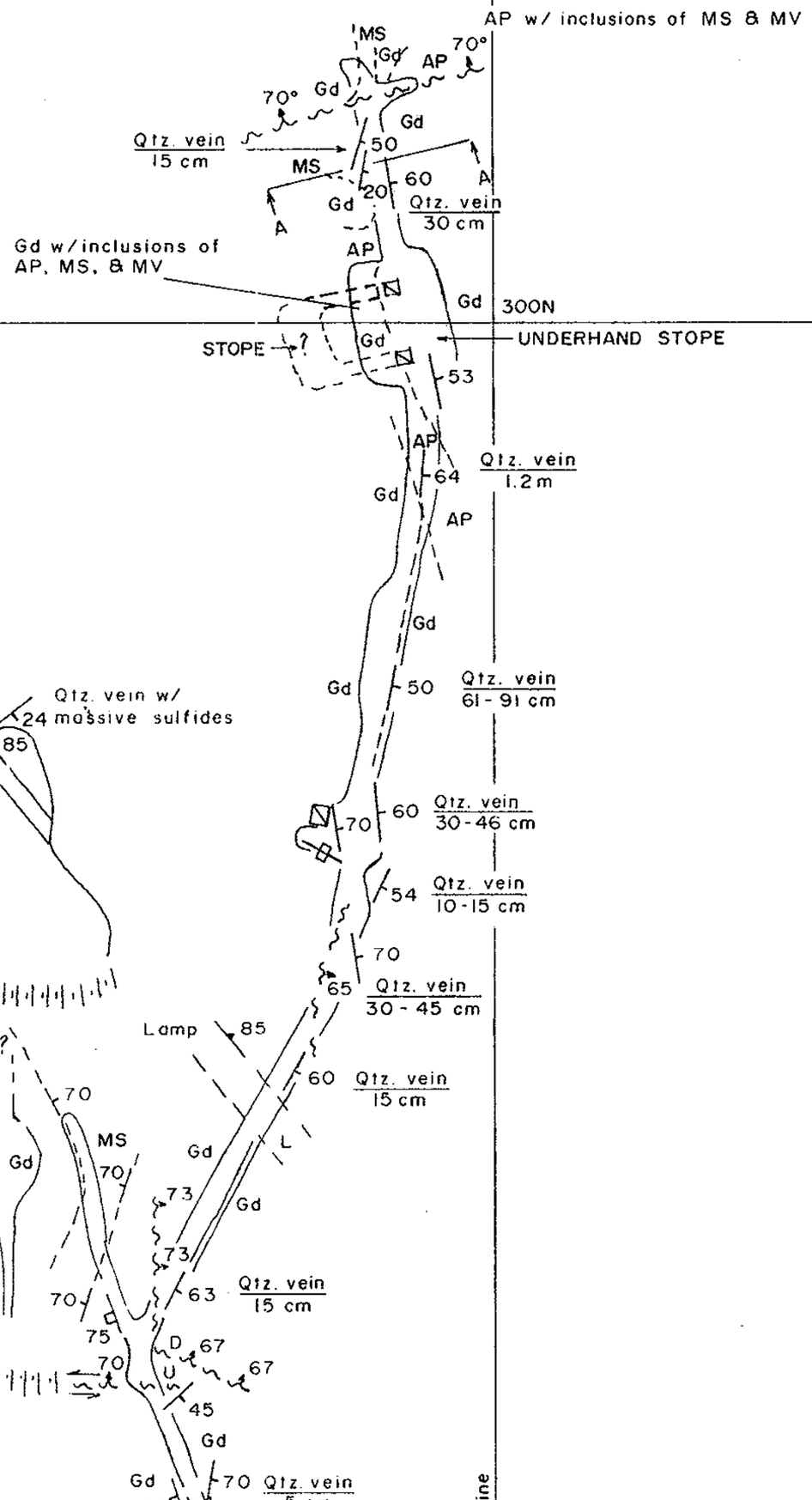
GEOCHEMICAL SURVEY

PETER H. SEVENSMA, PH.D.,P.ENG.

N.T.S. 82 F/6W	SCALE: 1:10,000	FIGURE
DATE: NOVEMBER, 1988	DRAWN: P.S./dw	7



Section A-A'



LEGEND

- L — Lamprophyre
- Gd — Nelson Intrusives (Granodiorite)
- AP — Silver King Porphyry (Andesite Porphyry)

Rossland Group

- MV — Meta - Volcanics (Green, recrystallized andesite)
- AuP — Augite Porphyry
- MS — Meta - Sediments (Black argillite, fined grained quartzite, tuffaceous sandstone)

- 60 — Dip and Strike of vein & bedding
- 60 — Dip and Strike of jointing
- 70 — Dip and Strike of dike
- Portal
- Ore chute
- Mine Dump
- 70 — Geologic Contact
- U D 70 — Dip and Strike of fault

Feet: 0 20 40 60 80 100

Meters: 0 10 20 30

Note: Surveyed by Brunton Compass and hip chain.

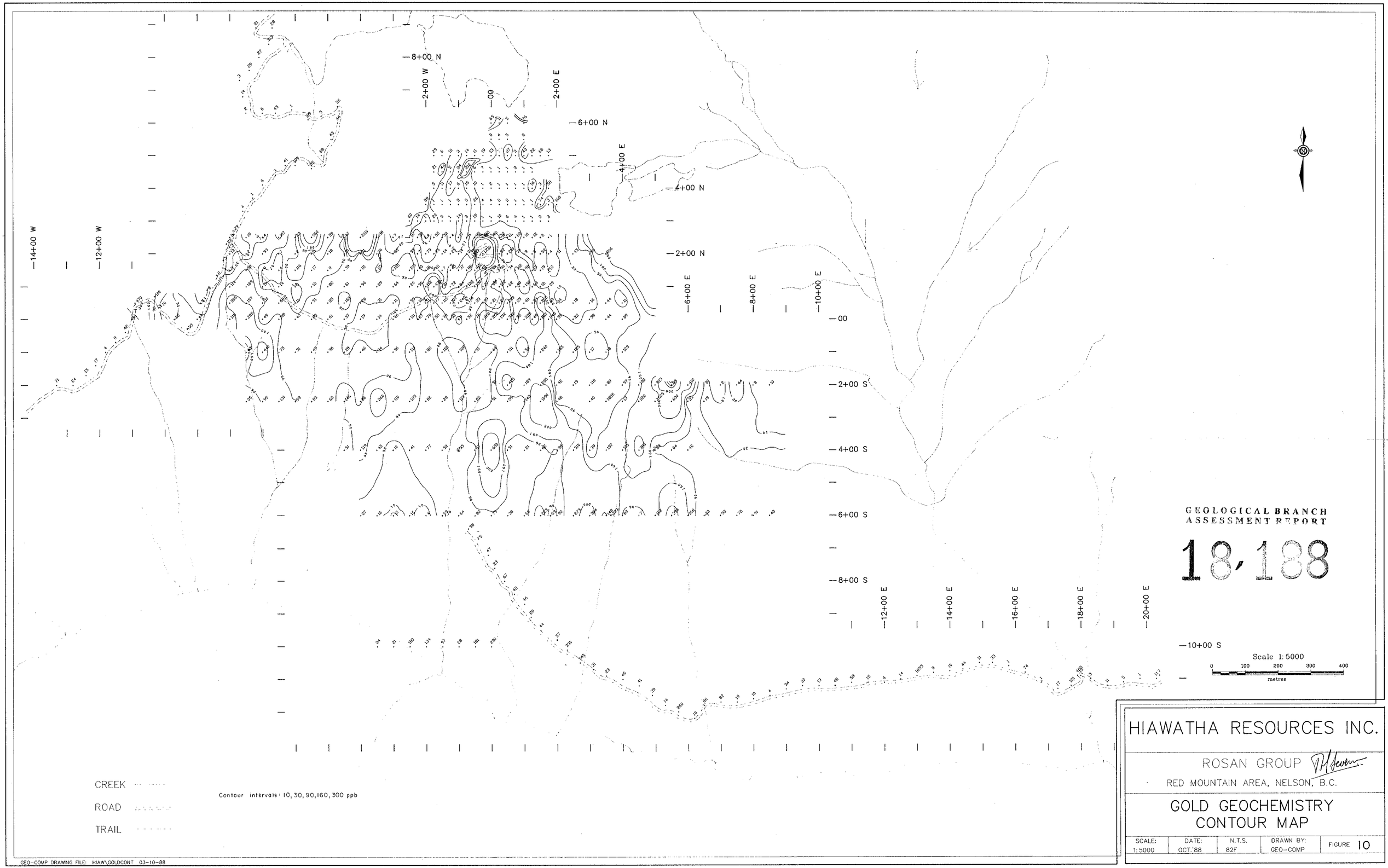
18,188

HIAWATHA RESOURCES INC.

PLAN OF UNDERGROUND WORKING ROZAN PROPERTY

ANGINEL RESOURCES LTD.

Drawn by:	Date:	
P.J. Santos, P.Eng	July 1988	PLATE NO. 9



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,188

HIAWATHA RESOURCES INC.

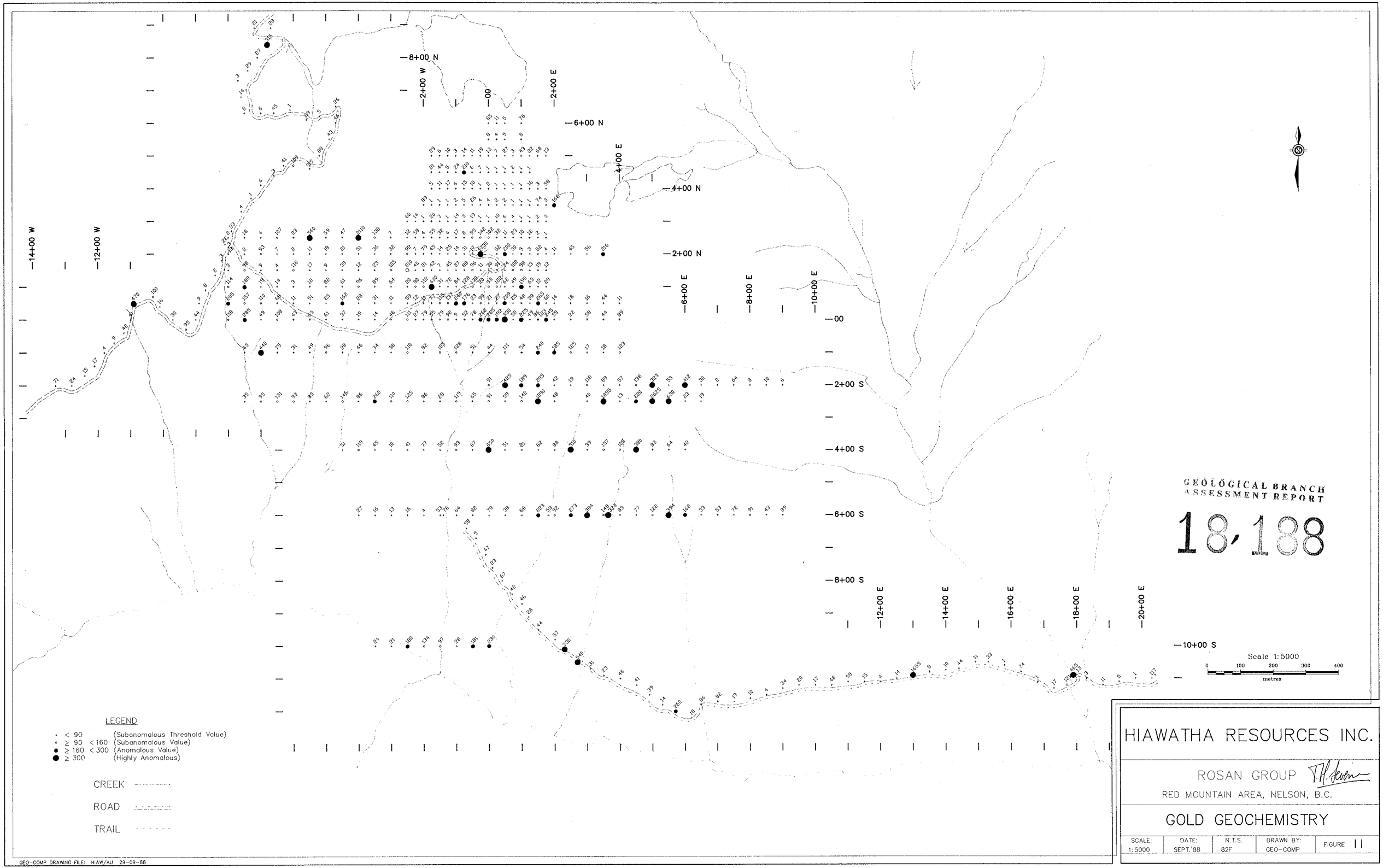
ROSAN GROUP

RED MOUNTAIN AREA, NELSON, B.C.

GOLD GEOCHEMISTRY CONTOUR MAP

SCALE:	DATE:	N.T.S.	DRAWN BY:	FIGURE
1:5000	OCT.'88	82F	GEO-COMP	10

GEO-COMP DRAWING FILE: HIAW\GOLDCONT 03-10-88



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,188

HIAWATHA RESOURCES INC.

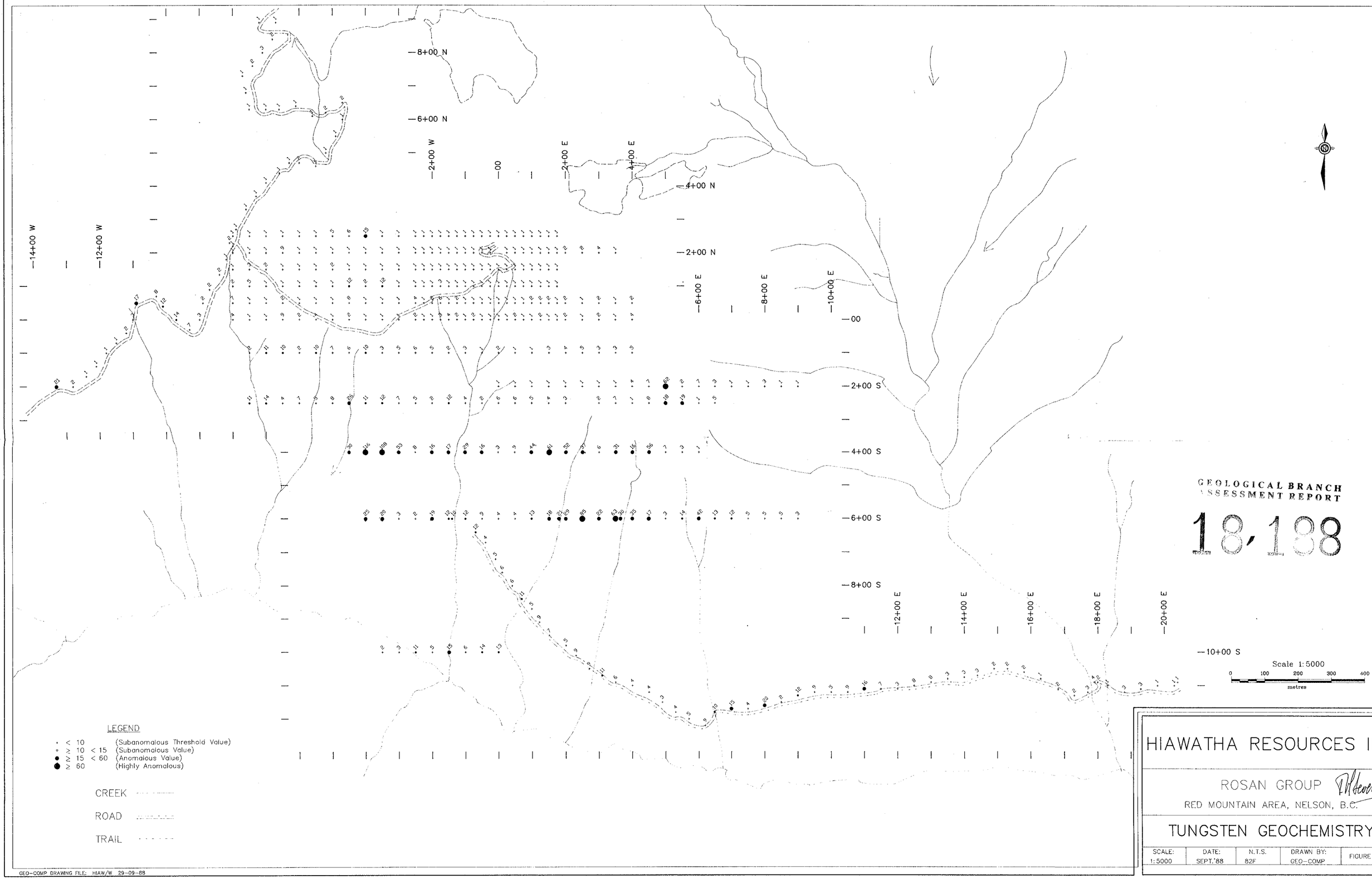
ROSAN GROUP

RED MOUNTAIN AREA, NELSON, B.C.

GOLD GEOCHEMISTRY

SCALE:	DATE:	N.T.S.	DRAWN BY:	FIGURE
1:5000	SEPT.'88	82F	GEO-COMP	11

GEO-COMP DRAWING FILE: HIAW/AU 29-09-88



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,188

HIAWATHA RESOURCES INC.

ROSAN GROUP

RED MOUNTAIN AREA, NELSON, B.C.

TUNGSTEN GEOCHEMISTRY

SCALE:	DATE:	N.T.S.	DRAWN BY:	FIGURE
1:5000	SEPT.'88	82F	GEO-COMP	12

GEO-COMP DRAWING FILE: HIAW/W 29-09-88

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,188

LEGEND

- • < 70 (Subanomalous Threshold Value)
- • ≥ 70 < 80 (Subanomalous Value)
- ● ≥ 80 <130 (Anomalous Value)
- ● ≥ 130 (Highly Anomalous)

CREEK

ROAD

TRAIL

HIAWATHA RESOURCES INC.

ROSAN GROUP

RED MOUNTAIN AREA, NELSON, B.C.

COPPER GEOCHEMISTRY

SCALE:	DATE:	N.T.S.	DRAWN BY:	FIGURE
1:5000	SEPT.'88	82F	GEO-COMP	13

GEO-COMP DRAWING FILE: HIAW/CU 29-09-88

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,188

HIAWATHA RESOURCES INC.

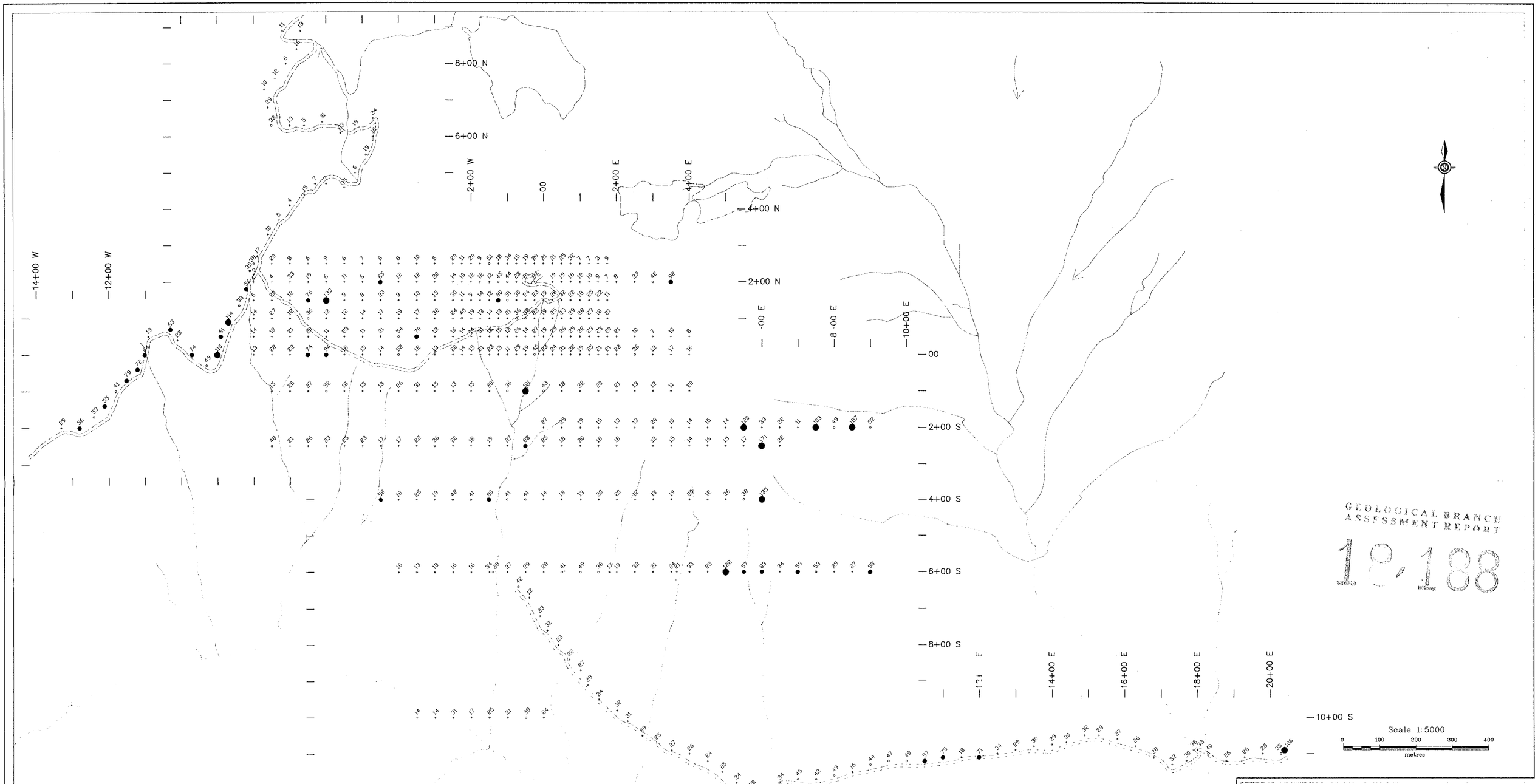
ROSAN GROUP

RED MOUNTAIN AREA, NELSON, B.C.

IRON GEOCHEMISTRY

SCALE:	DATE:	N.T.S.	DRAWN BY:	FIGURE
1:5000	SEPT.'88	82F	GEO-COMP	14

GEO-COMP DRAWING FILE: HIAW/FE 29-09-88



LEGEND

- \+ < 35 (Subanomalous Threshold Value)
- ° ≥ 35 < 55 (Subanomalous Value)
- ● ≥ 55 < 100 (Anomalous Value)
- ● ≥ 100 (Highly Anomalous)

CREEK

ROAD

TRAIL

HIAWATHA RESOURCES INC.

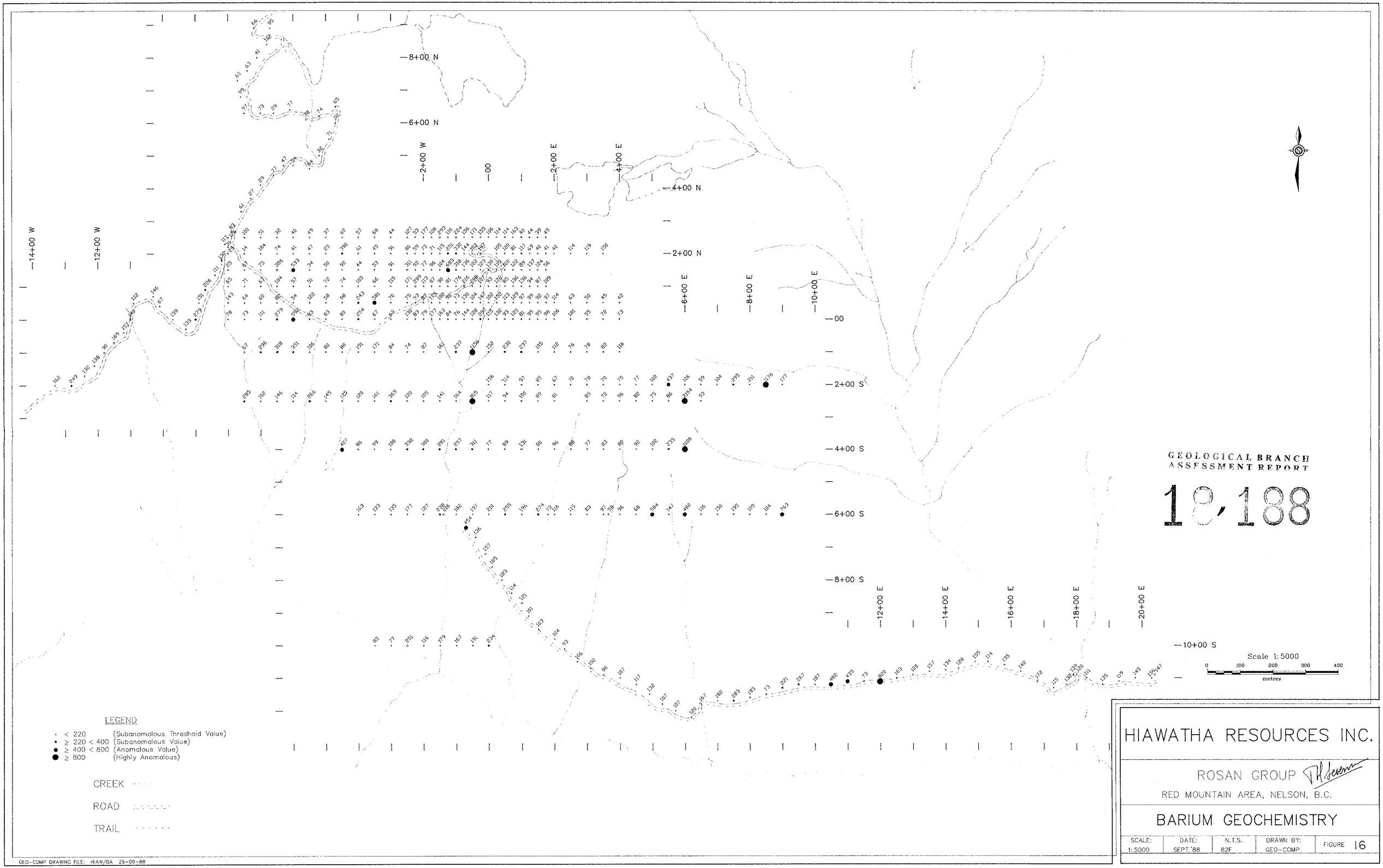
ROSAN GROUP

RED MOUNTAIN AREA, NELSON, B.C.

NICKEL GEOCHEMISTRY

SCALE:	DATE:	N.T.S.	DRAWN BY:	FIGURE
1:5000	SEPT.'88	82F	GEO-COMP	15

GEO-COMP DRAWING FILE: HIAW/NI 29-09-88



GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,188

LEGEND

- < 220 (Subanomalous Threshold Value)
- ≥ 220 < 400 (Subanomalous Value)
- ≥ 400 < 800 (Anomalous Value)
- ≥ 800 (Highly Anomalous)

CREEK

ROAD

TRAIL

HIAWATHA RESOURCES INC.

ROSAN GROUP

RED MOUNTAIN AREA, NELSON, B.C.

BARIUM GEOCHEMISTRY

SCALE:	DATE:	N.T.S.	DRAWN BY:	FIGURE
1:5000	SEPT.'88	82F	GEO-COMP	16

GEO-COMP DRAWING FILE: HIAW/BA 29-09-88